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REPORT

NASA CR-61325

SELECTING DIGITAL FILTERS FOR
APPLICATION TO DETAILED
WIND PROFILES

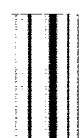
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FOREWORD

This document presents the results of work performed by Lockheed's Huntsville Research & Engineering Center while under subcontract to Northrop Nortronics (NSL PO 5-09287) for Marshall Space Flight Center, Contract NAS8-20082. This task was conducted in response to the requirement of Appendix A-1, Schedule Order 26.

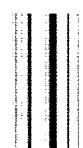
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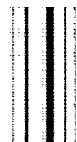
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SUMMARY

Application of Martin-Graham digital filters to detailed wind profiles is discussed. Procedures are outlined for selecting filter designs for a variety of applications. Numerous tables and illustrations enable the investigator to evaluate the capabilities and limitations of the many filters from which he may choose. Methods for weight computation and application to wind profile measurements are provided.



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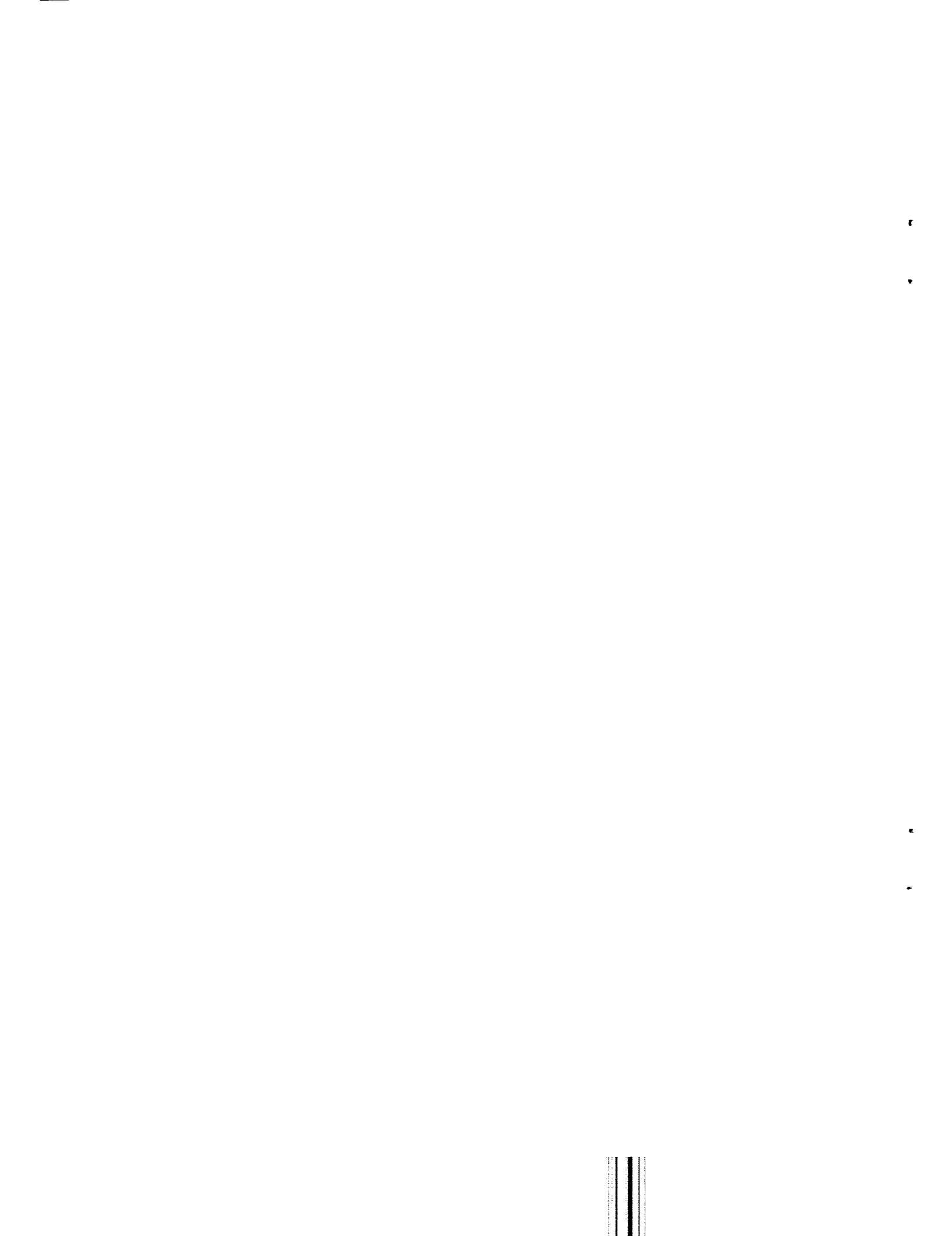
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Section 1 INTRODUCTION

This document is intended to assist investigators design, construct and apply digital filters to detailed wind profiles (i.e., profiles whose measurements are provided at 25-m altitude increments, such as those derived from FPS-16 radar measurements of the Jimsphere balloon). Information presented is in a form that requires little prior knowledge of the theory of filtering. Detailed theoretical treatments can be found in Refs. 1, 2 and 3.

Digital filters are used for smoothing, trend removal, or other forms of selective spectral alteration. For example, smoothing can be used to isolate synoptic or mesoscale wind profile features for study, or large-scale motions can be removed so that the effects of only small-scale motions can be examined. In this report, the task of filter design is reduced to selecting three parameters which determine the response (i.e., the effect that the filter has on the frequency domain of the input data). After he understands the way in which these parameters affect response, the investigator can construct a filter that best satisfies his requirements. By using the tabulated data and illustrations, the effects of a wide variety of filters can be compared.

The filters discussed are based on the Martin-Graham cosine rolloff model. This design was selected because of its

- Efficiency (a desired effect can be achieved with fewer weights than with most other filter types),
- Evenness (no phase shifts are produced), and
- Flexibility (weights for low-pass, high-pass, band-pass, and notch filters are easily computed).

Section 2 DISCUSSION

2.1 GENERAL

Most of this discussion concerns Martin-Graham low-pass, i.e., (smoothing) filters. With minor modifications, much of the information also applies to high-pass filters, and, to a lesser degree, band-pass and notch filters (Section 2.5).

Generally, a filter consists of a sequence of weights, each of which determines the proportion that an observation in a series contributes to the filtered value. All Martin-Graham filters consist of an odd number of weights, n , whose values are symmetric about the center weight. This configuration eliminates phase shifts. The filter is applied by cumulatively multiplying consecutive wind profile values by the weights to obtain a filtered wind at the level of the center weight. Filtered values are computed at each 25-m level for which input data are provided (except for the first and last $N = (n-1)/2$ values, which are lost). This process is illustrated in Section 2.4.

A discussion of digital filters requires that some of the concepts and methods of Fourier analysis be used. In the Fourier context, a wind profile is assumed to comprise a sum of sinusoidal waves of various lengths, amplitudes and phases. A filter operates on the frequency* domain, selectively altering the relative amplitudes of the Fourier components. Ideally, a low-pass filter would remove all Fourier components whose frequencies exceed a specified value, while leaving all lower frequency components unaffected.

*The term "frequency" ordinarily denotes the reciprocal of period in a time series. In this report, where space series are discussed, "frequency" analogously refers to the reciprocal of wavelength. The units used are cycles per meter.

Any filter with a finite n only approximates the ideal effect. A filter's effectiveness, therefore, can be evaluated in terms of how closely it approximates the ideal.

2.1.1 Response and Gain Functions

The response function of a filter, $\hat{G}(f)$, gives the effect of a filter on the frequency domain. The response function, $\hat{G}(f)$, is defined as the ratio of the amplitude of an oscillation of frequency f after filtering to its amplitude before filtering*. An ideal low-pass filter would have $\hat{G}(f) = 1$ for all frequencies less than some specified cutoff frequency, f_c , and $\hat{G}(f) = 0$ for all $f > f_c$. Given a set of filter weights, $\hat{G}(f)$ can be computed from the equation given on page A-4 of Appendix A.

The basic design of a filter is specified by its gain function, $G(f)$, which is defined in precisely the same manner as $\hat{G}(f)$, except that $G(f)$ represents the desired or designed response. The gain function for the Martin-Graham low-pass filter is given on page A-1 of Appendix A. The distinguishing characteristic of this model is that $G(f)$ is allowed to roll off from 1 to 0 as a cosine function. Other investigators (Ref. 4) have shown that the Martin-Graham model produces more efficient filters than any of several other designs that have been tested.

2.1.2 Filter Design and Construction

To construct a filter, the cutoff and termination frequencies, f_c and f_t , are selected to provide the desired rolloff, which determines a unique gain function that can be converted, by an inverse Fourier transformation, to the weight function (Appendix A, page A-2). After deciding upon the number of

* Just as the response function measures the effect of a filter on input data, the power transfer function, $(\hat{G}(f))^2$ measures its effect upon the spectrum of the data. For investigations of wind profile spectra, the transfer function may be a more useful measure of a filter's effect.

weights needed, one computes the weights from the discrete sample form of the weight function as shown on page A-3 of Appendix A.

In designing a filter, the parameters f_c , f_t and n must be chosen so that an adequate response is produced. The required response, however, is a function of the spectral characteristics of the data. For example, consider the profiles of the meridional wind component and ascent rate in Figs. 1 and 2. Clearly, the ratios of the amplitudes of high frequencies to low frequencies differ greatly. Therefore, smoothing the ascent rate requires that high frequencies be suppressed more than is needed to produce an equivalent smoothing of horizontal winds. This becomes evident later in the discussion where the gain and response functions of a variety of low-pass filters, together with filtered versions of the profiles in Figs. 1 and 2, are shown.

2.2 RESPONSE AS A FUNCTION OF f_c , f_t AND n

The proper choice of f_c , f_t and n requires that the characteristics of the resultant response function be anticipated. Although the gain function $G(f)$ is specified by f_c and f_t , how closely $\hat{G}(f)$ approximates $G(f)$ for a given n must be known. Specifically, it is important to know: (1) the width of the actual rolloff and (2) the effectiveness of the preservation of all $f < f_c$ and attenuation of all $f > f_t$. A sharp rolloff is desirable because attenuation varies widely in this interval. If the lobes in $\hat{G}(f)$ outside the rolloff interval (see below) are too large, inadequate attenuation of high frequencies, coupled with distortion of the relative amplitudes of low frequencies, may result. Response characteristics, as they relate to the choice of f_c , f_t , and n , are discussed in this section.

2.2.1 Effect of Varying f_c

The effect of varying f_c is illustrated in Figs. 3, 4, and 5. Figures 3a through 3h show the gain (dotted line) and response (solid line) functions* for

*The frequency scale extends from zero to the Nyquist frequency ($f_N = 0.02$). This is the highest frequency that can be represented by 25-m data.

several filters, each of which has 101 weights and a rolloff interval of 0.0005. The cutoff frequencies vary from 0.0 to 0.01, corresponding to vertical wavelengths ranging from infinity to 100 m. The function $\hat{G}(f)$ closely approximates $G(f)$, as evidenced by the sharp rolloff and low-amplitude side lobes. Figures 4 and 5 show the effect of filtering the profiles shown in Figs. 1 and 2, using 24 different values of f_c while maintaining $N = (n-1)/2$ and $\Delta f = f_t - f_c$ constant at 50 and 0.0005, respectively. Note that the lowermost and uppermost 50 data points are lost. Each filtered profile is plotted to the same scale as the unfiltered profiles of Figs. 1 and 2. The space between vertical grid lines equals the displacement of successive filtered profiles.

2.2.2 Effect of Varying n

The departure of $\hat{G}(f)$ from $G(f)$ depends, in part, upon the number of weights, n . In fact, $G(f) = \lim_{n \rightarrow \infty} \hat{G}(f)$. Figures 6a through 6e illustrate this effect by showing results for $n = 11, 21, 41, 71$ and 101 , while f_c and f_t remain fixed at 0.005 and 0.0055, respectively. Notice that as n increases, $\hat{G}(f)$ rolls off more sharply and side-lobe amplitudes tend to diminish. The sets of filtered profiles of Figs. 7 and 8 include the effects of the filters shown in Fig. 6.

Depending on the filtering task and the spectral composition of the data, the choice of n may or may not be crucial. For example in Figs. 7 and 8, increasing the number of weights beyond 31 has only a very slight effect. If a rolloff is required in the very low frequency portion of the spectrum, where spectral amplitudes in wind profiles are normally large, however, n becomes very important. In Figs. 9 and 10 where $f_c = 0.0$ and $f_t = 0.0005$ (attenuation of all $\lambda < 2000$ m is wanted), the importance of n is obvious, with $n = 101$ producing the best results (see Fig. 3a for $G(f)$ and $\hat{G}(f)$). Here, a sharp rolloff and small high-frequency lobes in $\hat{G}(f)$ are essential.

2.2.3 Effect of Varying Δf

The rolloff bandwidth, Δf , also affects the behavior of $\hat{G}(f)$. For a fixed n , side-lobe amplitudes generally increase as Δf decreases. Thus, in selecting a filter, one must compromise between rolloff sharpness and suppression of side lobes. Figures 11a through 11d, where $n = 11$, $f_c = 0.001$ and Δf varies, illustrate this effect. The sequences of filtered profiles in Figs. 12 and 13 include the effects of the filters shown in Fig. 11. Note that high frequencies (oscillations which make the unfiltered profile look rough) are effectively removed from the profile of the meridional component and that there is little noticeable difference between the filtered profiles. High frequencies in the filtered ascent-rate, however, are not completely removed, although they are increasingly attenuated as Δf becomes larger.

Response also depends upon the sampling interval of the data. Since the sampling interval is a constant 25m for detailed profiles, this effect may be ignored in this study.

In summary, the following points should be considered when the parameters, f_c , f_t and n , are being selected:

- Filter requirements depend upon the spectral composition of the input data. Specifically, they depend upon the ratio of amplitudes of the frequencies to be suppressed to those to be retained.
- Response improves (i.e., $\hat{G}(f)$ approaches $G(f)$) as the number of weights increases. Unfortunately, computation time and the number of points lost (the first and last N) increase correspondingly.
- In selecting f_c and f_t for a low-pass filter with n weights, one should realize that as Δf decreases the side-lobes of $\hat{G}(f)$ tend to increase.

2.3 USE OF TABLES TO EVALUATE RESPONSE

Appendix B and Appendix C consist of tables which permit comparisons to be made among the response characteristics of a variety of low-pass filters.

The tables in Appendix B measure the rolloff of the response curves and those in Appendix C indicate the rms deviation of $\hat{G}(f)$ from $G(f)$. Each appendix contains 11 tables, grouped according to Δf because, for fixed values of Δf and n , the response functions tend to have similar rolloff bandwidths and side lobe amplitudes (see Figs. 3a through 3h). Each table contains columns corresponding to 24 different f_c 's or vertical wavelengths of ∞ ($f_c = 0$), 10 km, 7.5 km, 5 km, 4 km, 3 km, 2.5 km, 2 km, 1750 m, 1500 m, 1250 m, 1000 m, 900 m, 800 m, 700 m, 600 m, 500 m, 400 m, 300 m, 250 m, 200 m, 150 m, 125 m, and 100 m. Each column is labeled according to f_c and f_t and their equivalent vertical wavelengths λ_c and λ_t . The columns contain values corresponding to $N = 5, 10, \dots, 50$.

2.3.1 Use of Response Rolloff Tables (Appendix B)

The response rolloff tables give the vertical wavelengths at which $\hat{G}(f)$ equals 0.8 and 0.2. While the choice of 0.8 and 0.2 is arbitrary, the tables provide information on the true rolloff of each filter. From these listed values, one may compare the rolloff steepness of 2640 filters. The following examples illustrate possible uses of the tables:

Example: How many weights are needed to attenuate at least 80% of all $\lambda < 100$ m and retain at least 80% of all $\lambda > 150$ m?

Filters having the required rolloff and only 11 weights ($N=5$) are found in Tables 1 through 5 (with $\lambda_c = 125$ m), and Tables 8 through 10 (with $\lambda_c = 150$ m). Possibly even fewer weights could produce the required rolloff.

Example: All $\lambda < 200$ m in an ascent-rate profile are to be strongly attenuated and all $\lambda > 1000$ m are to be essentially retained. Assuming that choosing $\Delta f = 0.002$ and $N = 50$ will ensure the necessary small side-lobes, what value of λ_c should be chosen?

Since retention of the band $200 < \lambda < 1000$ is not required, it should be attenuated as much as possible. Table 8 (p. B-22) shows that $\lambda_c = 2500$ m produces an 80 to 20% rolloff from 1006.70 to 552.67. Other choices of λ_c (such as 1000 m) would satisfy the stated objectives, but would produce less attenuation of the 200 - 1000 m band.

2.3.2 Use of Tables of RMS Difference Between Gain and Response (Appendix C)

This set of tables indicates the degree of conformity between the gain and response. Tabulated values give an indication of the relative magnitudes of side lobes, and therefore the degree of suppression of unwanted high frequencies. Each tabulated value is the rms difference between $G(f)$ and $\hat{G}(f)$, computed from 200 differences. The tables confirm the tendency for $\hat{G}(f)$ to approach $G(f)$ as n and Δf increase.

Example: Assume that the filter whose response is shown in Fig. 11d ($\Delta F = 0.004$, $N=5$, $f_c = 0.001$) is considered to be adequate to attenuate all $\lambda < 100$ m in an ascent rate profile (see Fig. 13b). Appendix B (p. B-32) shows the 80 to 20% rolloff to be from 601.8 to 248.0 m. Appendix C gives an rms value of 0.04866. Suppose that a sharper rolloff is wanted (from 600 m to 500 m) while at least the same degree of attenuation of $\lambda < 100$ m is maintained. How many weights would be needed?

A survey of the rolloff tables (Appendix B) reveals only three listed filters that have the desired rolloff (i.e., Table 1, $\lambda_c = 600$, and $\lambda_t = 508$, $N = 40, 45$, or 50). Table 1 of Appendix C shows that the rms value for each of these filters is less than 0.04866. Thus, the choice of $\lambda_c = 600$, $\lambda_t = 508$, and $N = 40$ (81 weights) can reasonably be expected to be adequate.

2.4 DETERMINING AND APPLYING FILTER WEIGHTS

The preceding discussion, with its illustrations and tables, should enable the investigator to choose the parameters for a low-pass filter which meets his requirements. The capabilities and limitations of the Martin-Graham filter, as applied to detailed wind profiles, have been presented. Methods for generating weights and applying them to wind profile data are discussed in this section.

Two methods of determining weights are provided. One of these is a subroutine, written in FORTRAN IV, which can generate weights for any Martin-Graham low-pass, high-pass, band-pass or notch filter. It can also filter input data and compute response. The use of the method is not limited

to 25-m wind profile data. The subroutine is fully explained and listed in Appendix A.

If the use of the subroutine described in Appendix A is not possible, weights can be obtained from the third set of tables (Appendix D). The format of the weight tables is equivalent to the format of the other two sets of tables. Each tabulated column consists of 51 non-normalized weights which can be grouped to form low-pass filters of from 3 to 101 weights. After the filter parameters n , f_c , and f_t have been chosen, the weights are computed as follows:

1. Find the table and weight column corresponding to f_c and f_t .
2. The leftmost column on each page lists values of N from 0 to 50. Use the first $N+1$ values (h_0 through h_N) in the weight column to form the filter weight array:

$$\underline{h_N}, \underline{h_{(N-1)}}, \dots, \underline{h_2}, \underline{h_1}, \underline{h_0}, \underline{h_1}, \underline{h_2}, \dots, \underline{h_{(N-1)}}, \underline{h_N}$$

where $h_{-i} = h_i$ for all i .

(The block of values in the table corresponds to the sequence shown in brackets.)

3. Normalize by applying the constraint

$$\sum_{i=-N}^N h_i = 1$$

by dividing each weight by the sum of all the weights:

$$h_0 + 2 \sum_{i=1}^N h_i$$

Example: Suppose these filter parameters have been selected:

$$\begin{aligned} n &= 5 \\ f_c &= 0.004 \ (\lambda_c = 250 \text{ m}) \\ f_t &= 0.005 \ (\lambda_t = 200 \text{ m}) \end{aligned}$$

Since $\Delta f = 0.001$, the required weight column is in Table 4.
 Since $N = 2$, the first $N+1 = 3$ tabulated values are used to form the symmetric weight array:

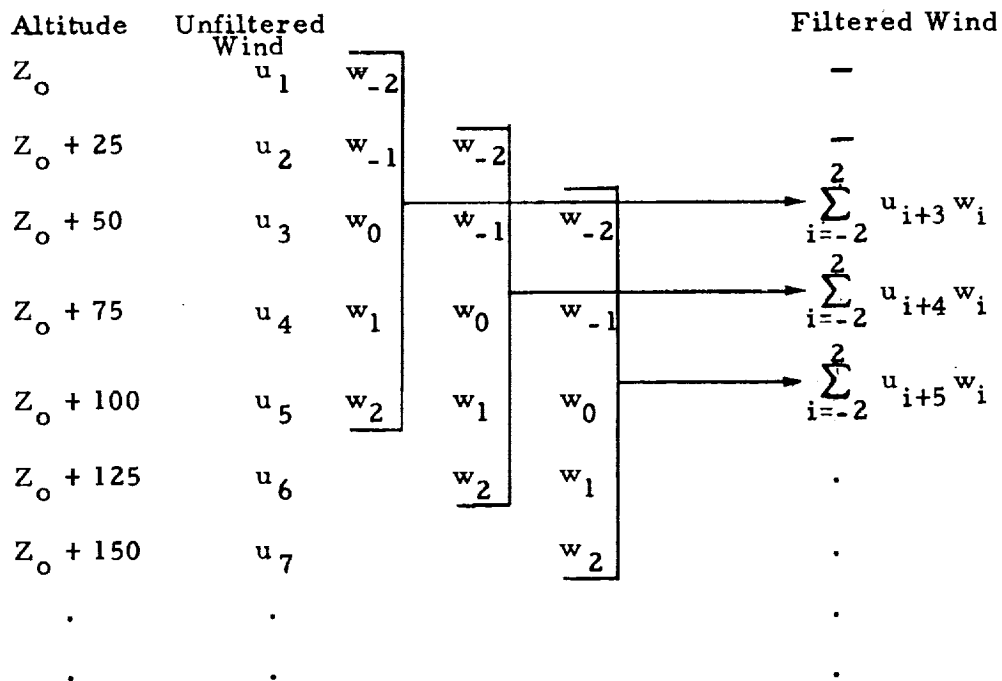
0.06273137
 0.08264199
 0.09000000
 0.08264199
 0.06273137

and the normalized weights w_i (to three decimal places) are:

0.165
 0.217
 0.236
 0.217
 0.165

Application of weights to a sequence of wind profile data is illustrated below:

Given, for example, a 5-weight filter $w_{-2}, w_{-1}, w_0, w_1, w_2$ and a sequence of wind values, u_1, u_2, u_3, \dots , the filter operates on the data as follows:



(Note that no filtered values are provided for the first $N = 2$ points (this is also true for the last N points)).

2.5 HIGH-PASS, BAND-PASS AND NOTCH FILTERS

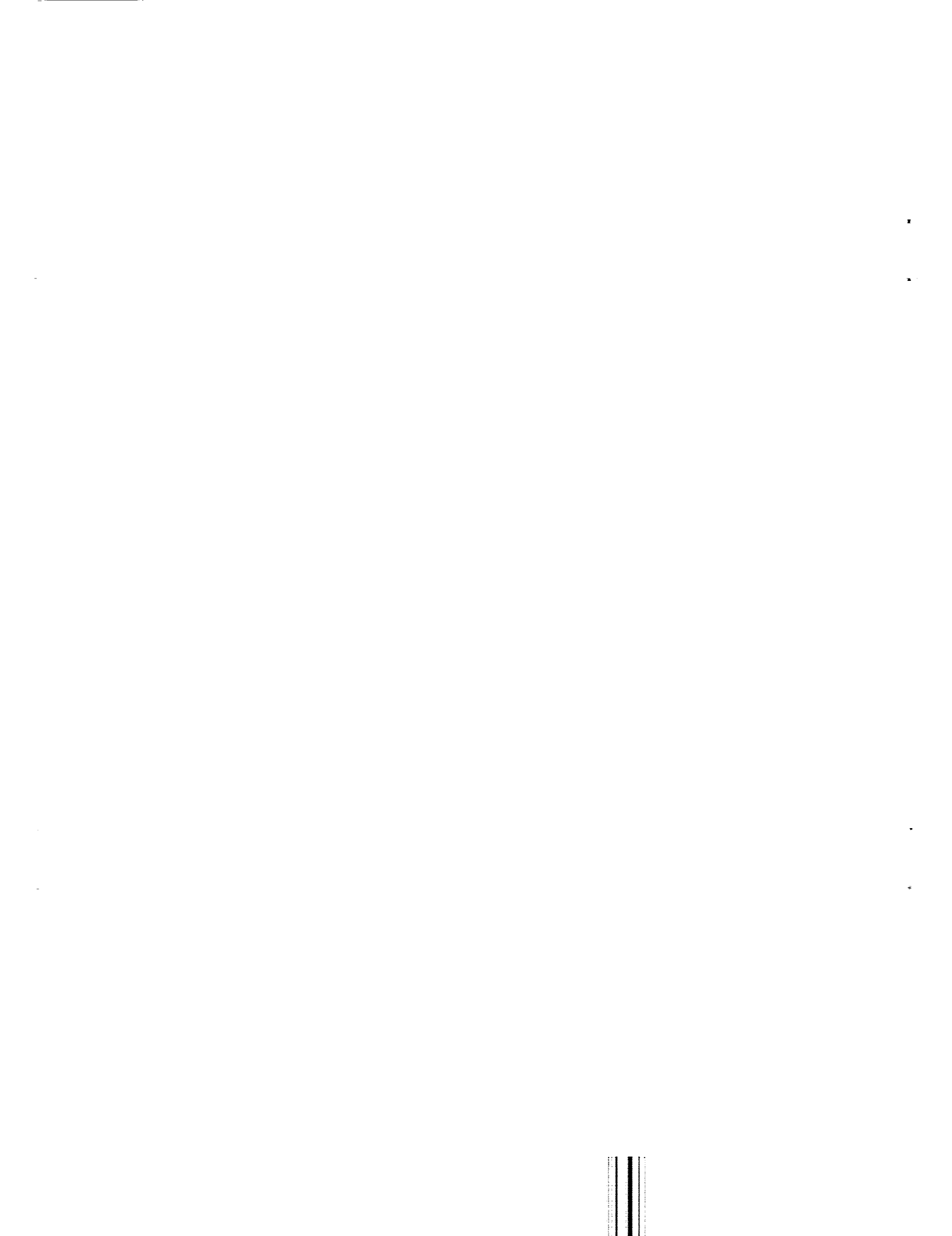
The high-pass, band-pass and notch filters, whose characteristic gain functions are illustrated in Fig. A-1, Appendix A, are used to attenuate low frequencies, high and low frequencies, or any isolated frequency bands, respectively. Weights for any of these filters can be easily obtained from low-pass filter weights as described on page A-4 of Appendix A.

The response of a high-pass filter equals one minus the response of the equivalent low-pass filter (same n , f_c and f_t reversed). Therefore, the data in Appendixes B and C are valid for both types, except that the cutoff and termination values are reversed.

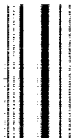
Band-pass and notch filters are constructed from pairs of high- and low-pass filters. Their response functions are thus composites of two filters. Therefore, the tables in Appendixes B and C do not apply to band-pass or notch filters.

REFERENCES

1. German, Edgar H. Jr., "Digital Filtering and Processing by Transform Techniques, Volume I," Final Report, Contract NAS8-20308, The Bendix Corp., Communications Division, Baltimore, Md., 30 June 1968.
2. Taylo, James T., "Digital Filters for Non-Real-Time Data Processing," NASA CR-880, Northeast Louisiana State College, Monroe, La., October 1967.
3. Graham, Ronald J., "Determination and Analysis of Numerical Smoothing Weights," NASA TR R-179, George C. Marshall Space Flight Center, Huntsville, Ala., December 1963.
4. Anders, Edward B., et al., "Digital Filters," NASA CR-136, Auburn Research Foundation, Inc., Auburn, Ala., December 1964.



FIGURES



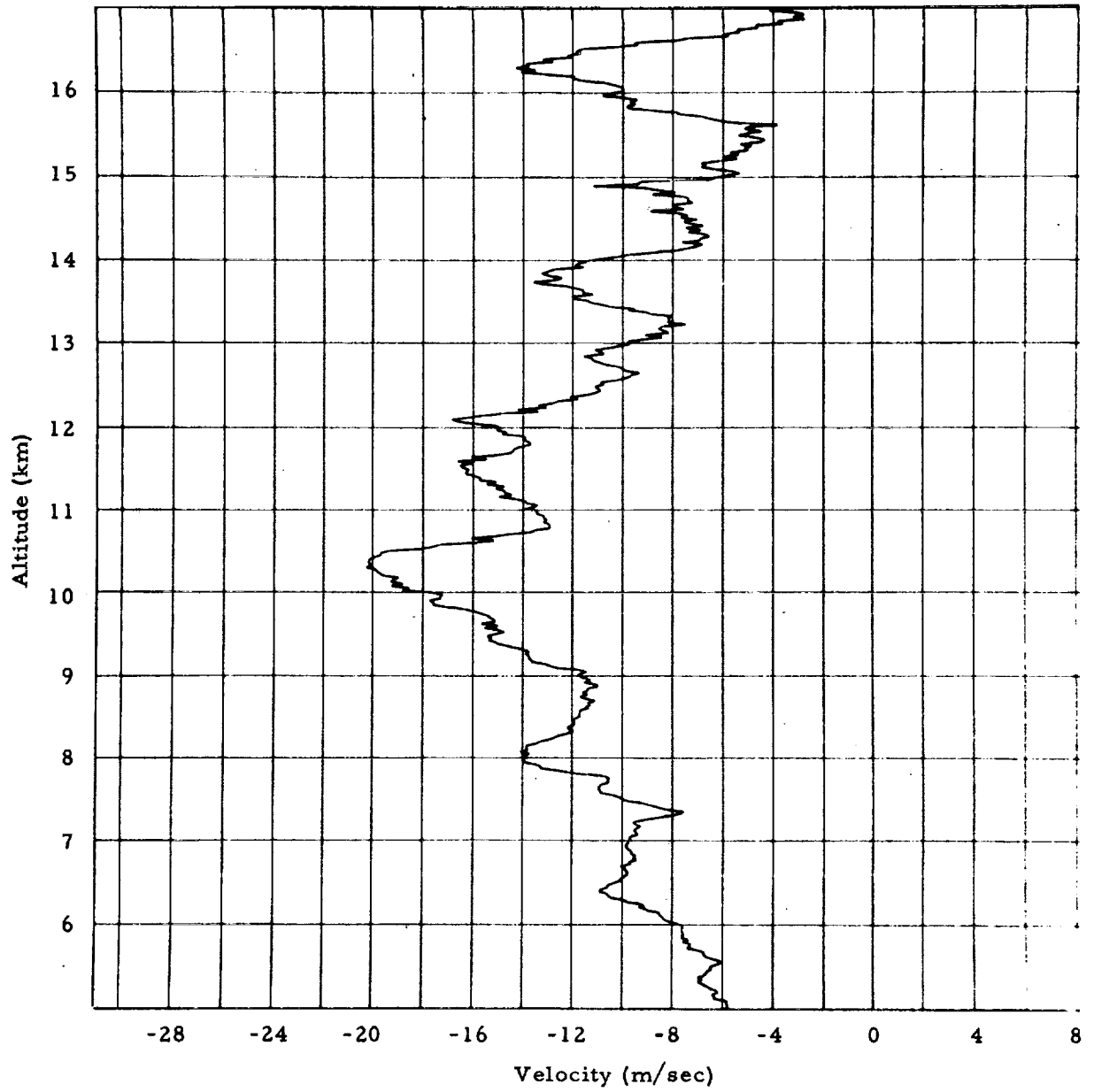


Fig. 1 - Profile of Meridional Wind Component; 1400Z, 23 December 1964, Cape Kennedy, Florida

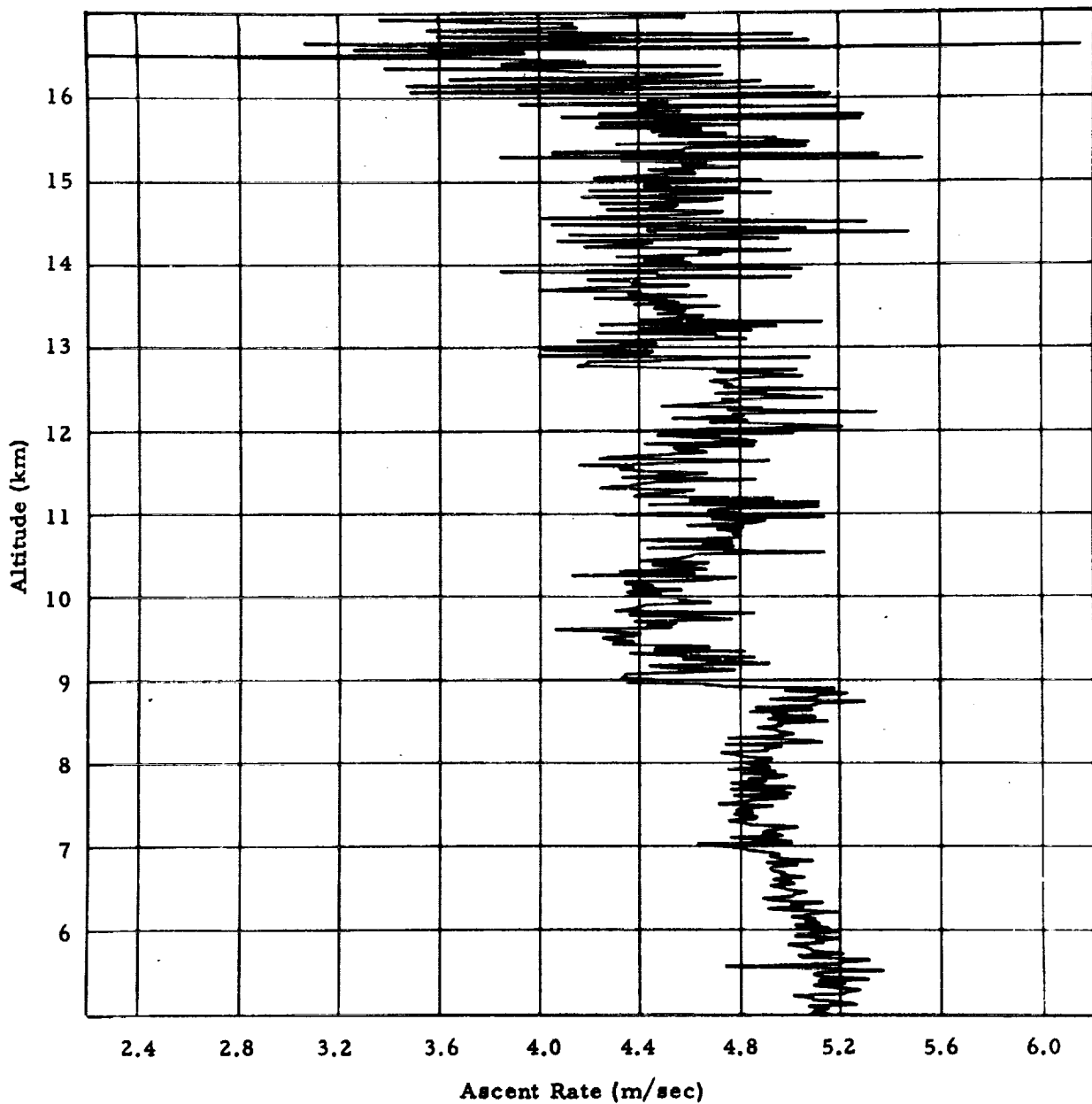


Fig. 2 - Profile of Jimisphere Ascent Rate; 1400Z, 23 December 1964, Cape Kennedy, Florida

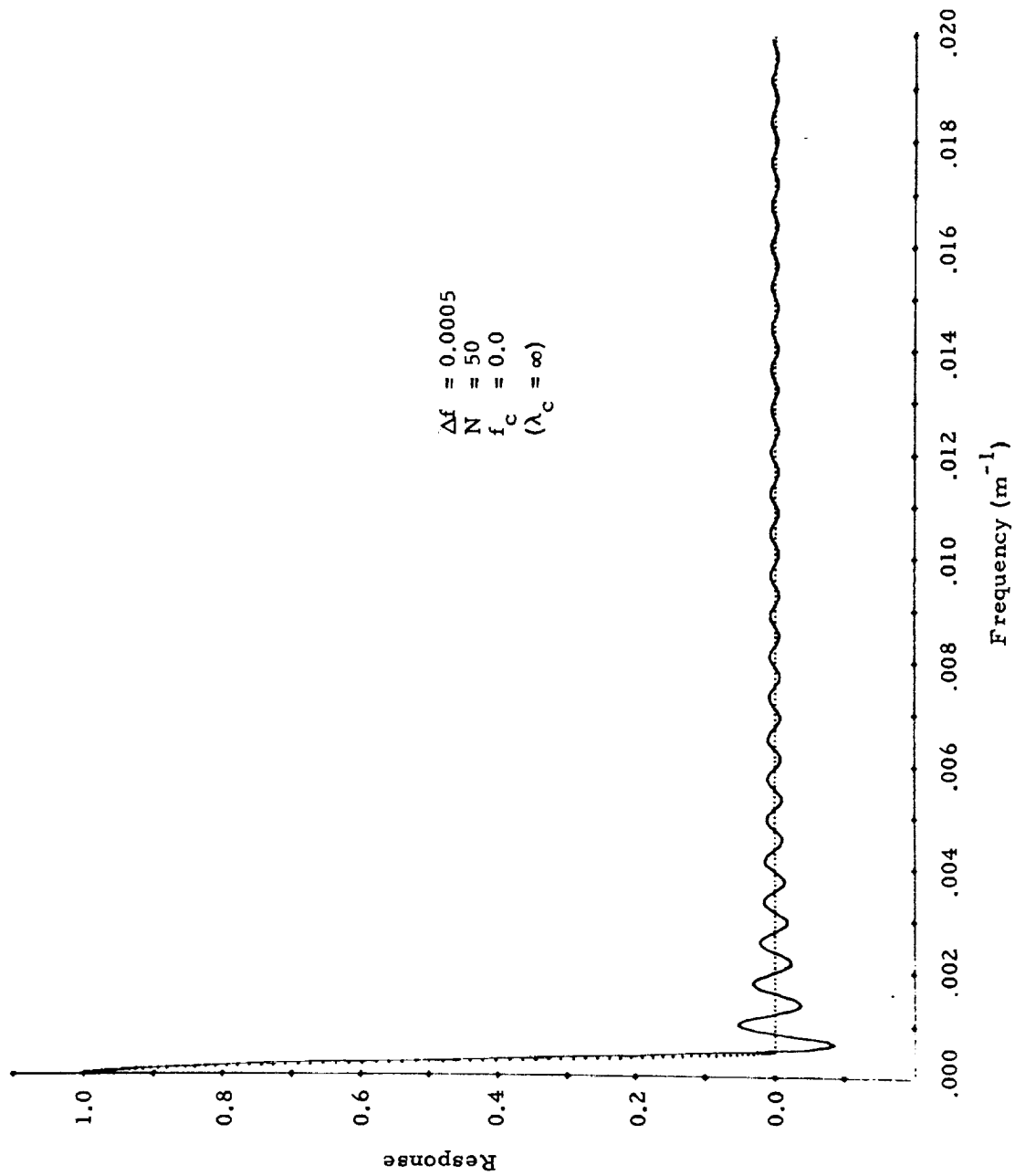


Fig. 3a - Effect of Shifting the Rolloff Interval

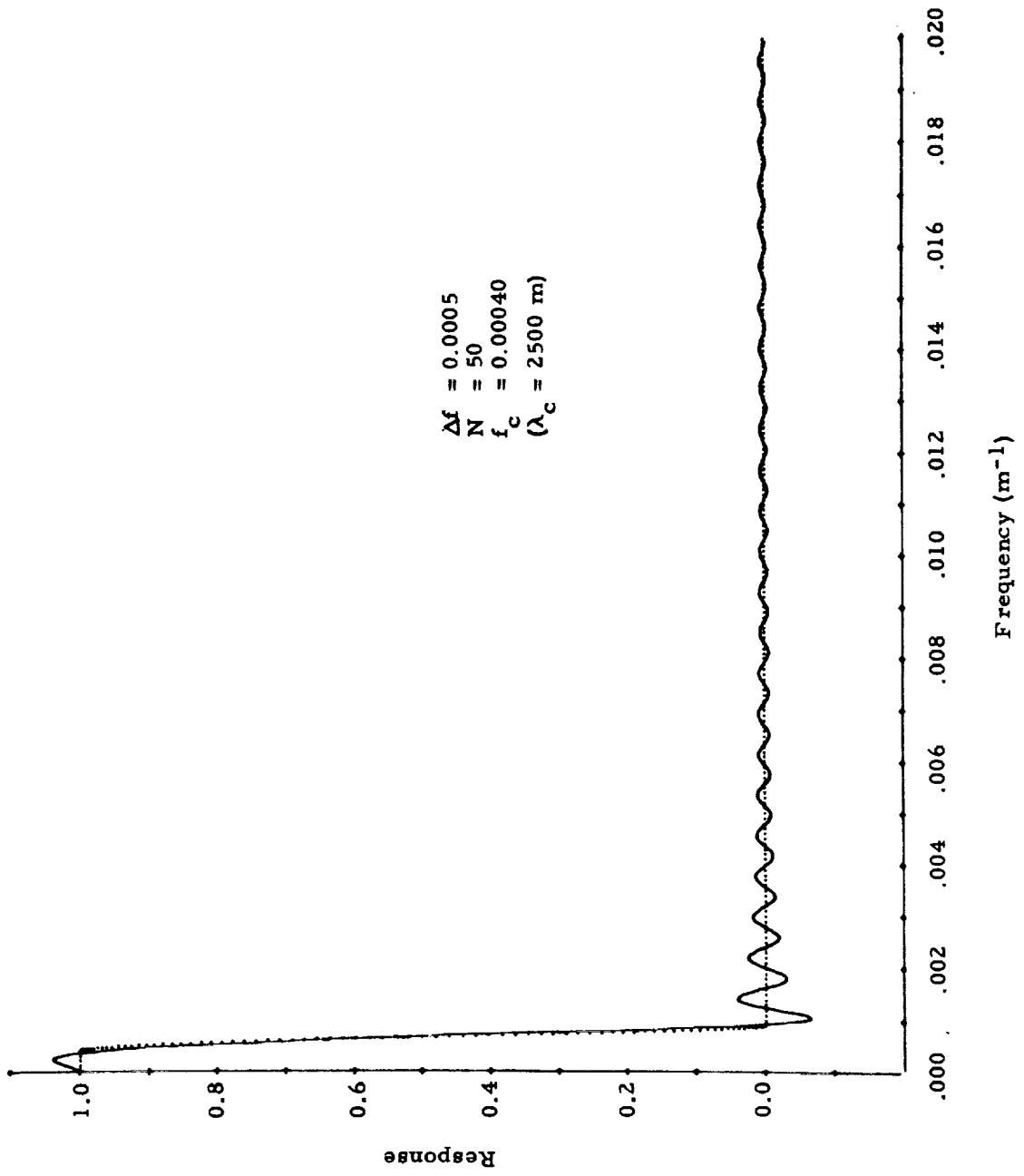


Fig. 3b - Effect of Shifting the Rolloff Interval

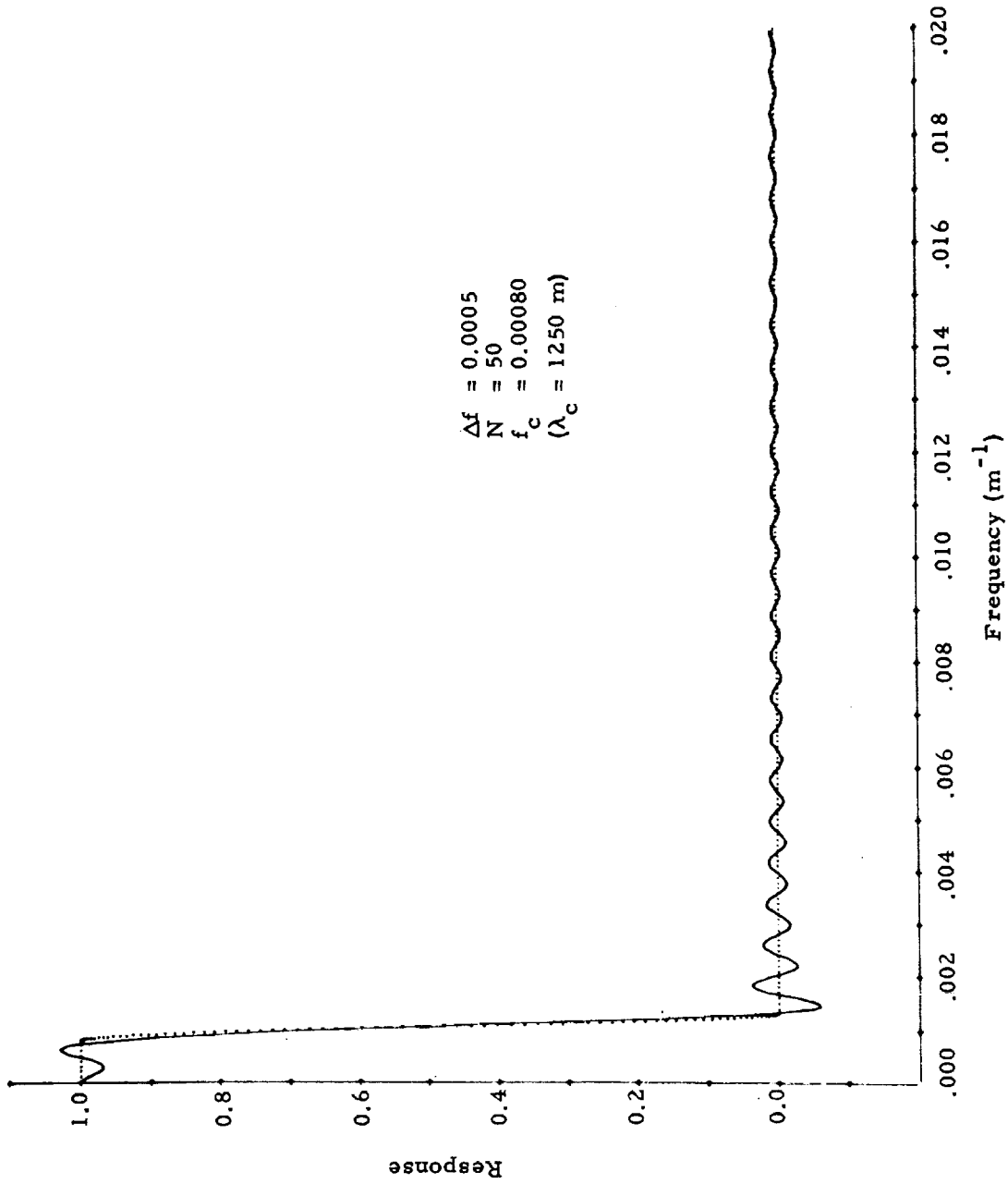


Fig. 3c - Effect of Shifting the Rolloff Interval

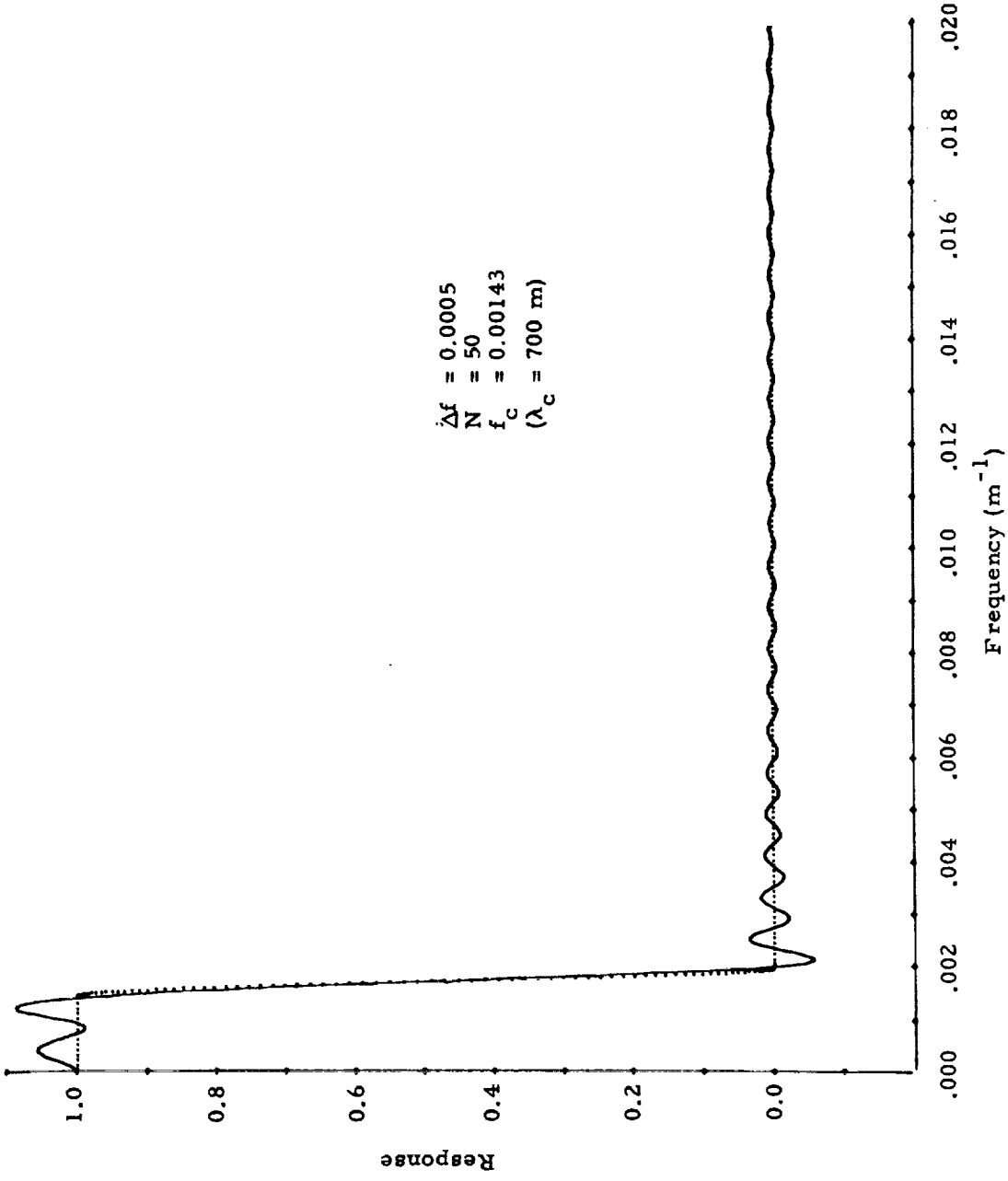


Fig. 3d - Effect of Shifting the Rolloff Interval

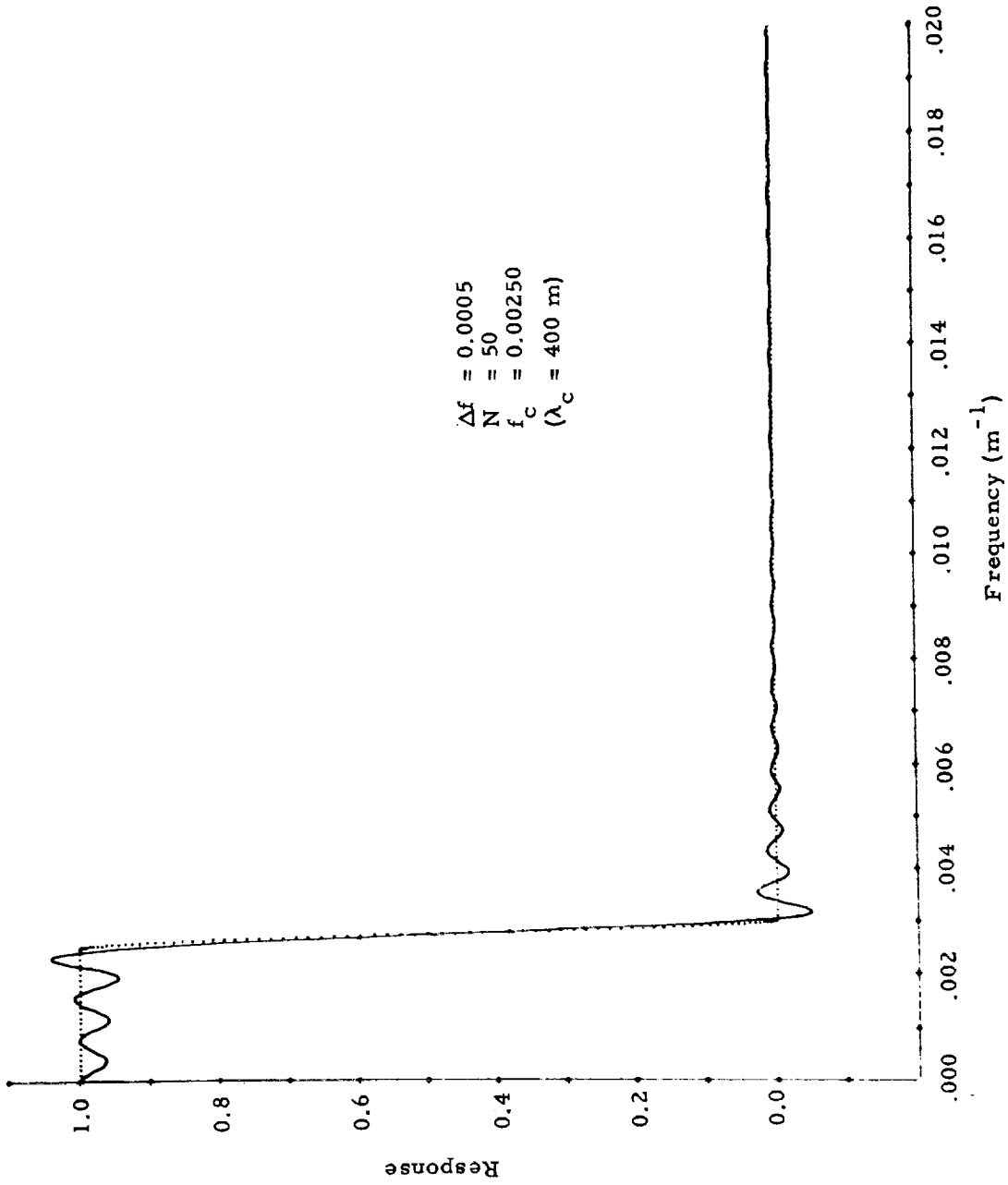


Fig. 3e- Effect of Shifting the Rolloff Interval

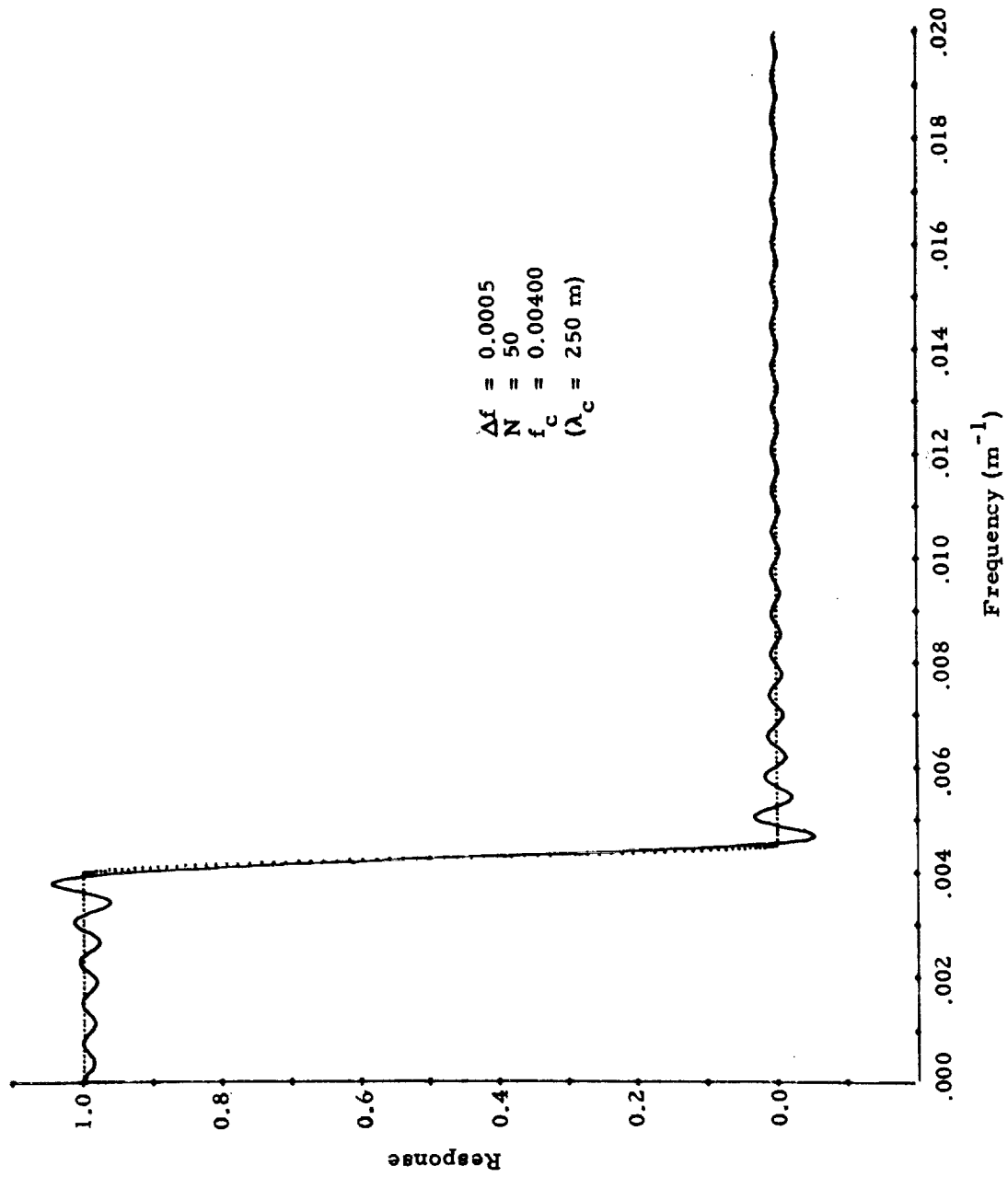


Fig. 3f - Effect of Shifting the Rolloff Interval

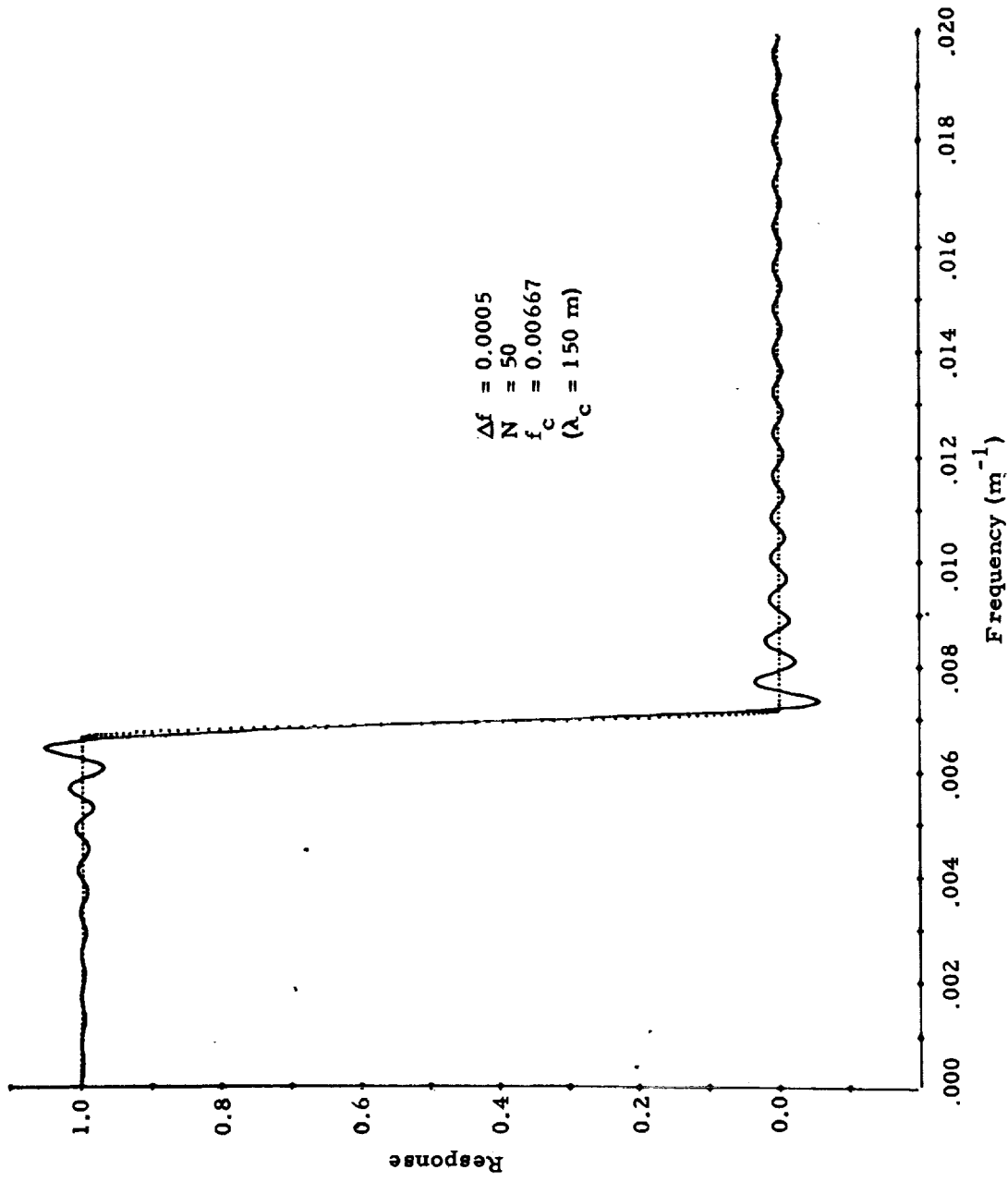


Fig. 3g - Effect of Shifting the Rolloff Interval

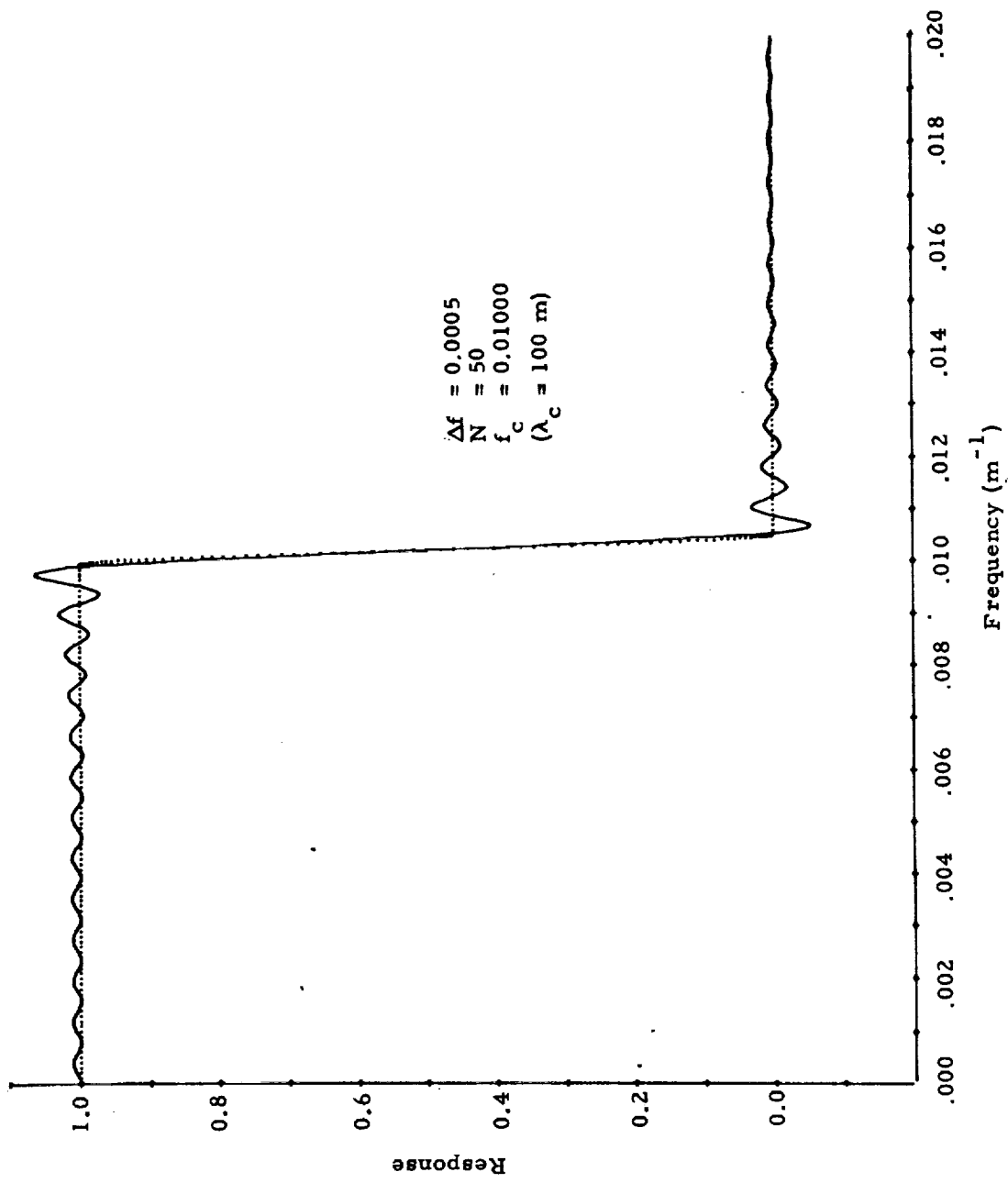


Fig. 3h - Effect of Shifting the Rolloff Interval

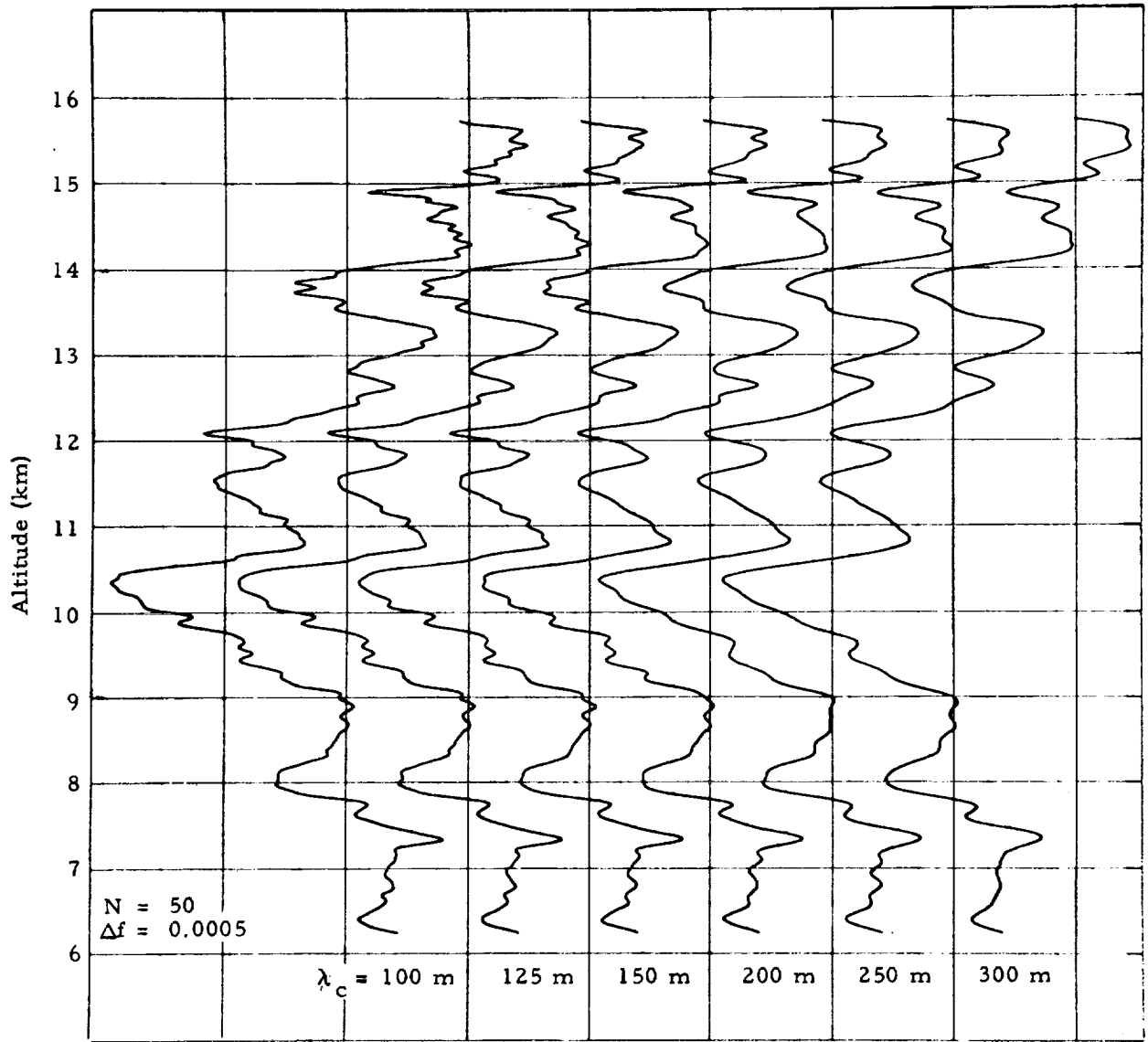


Fig. 4a - Effect of Shifting the Rolloff Interval - Filtered Meridional Component

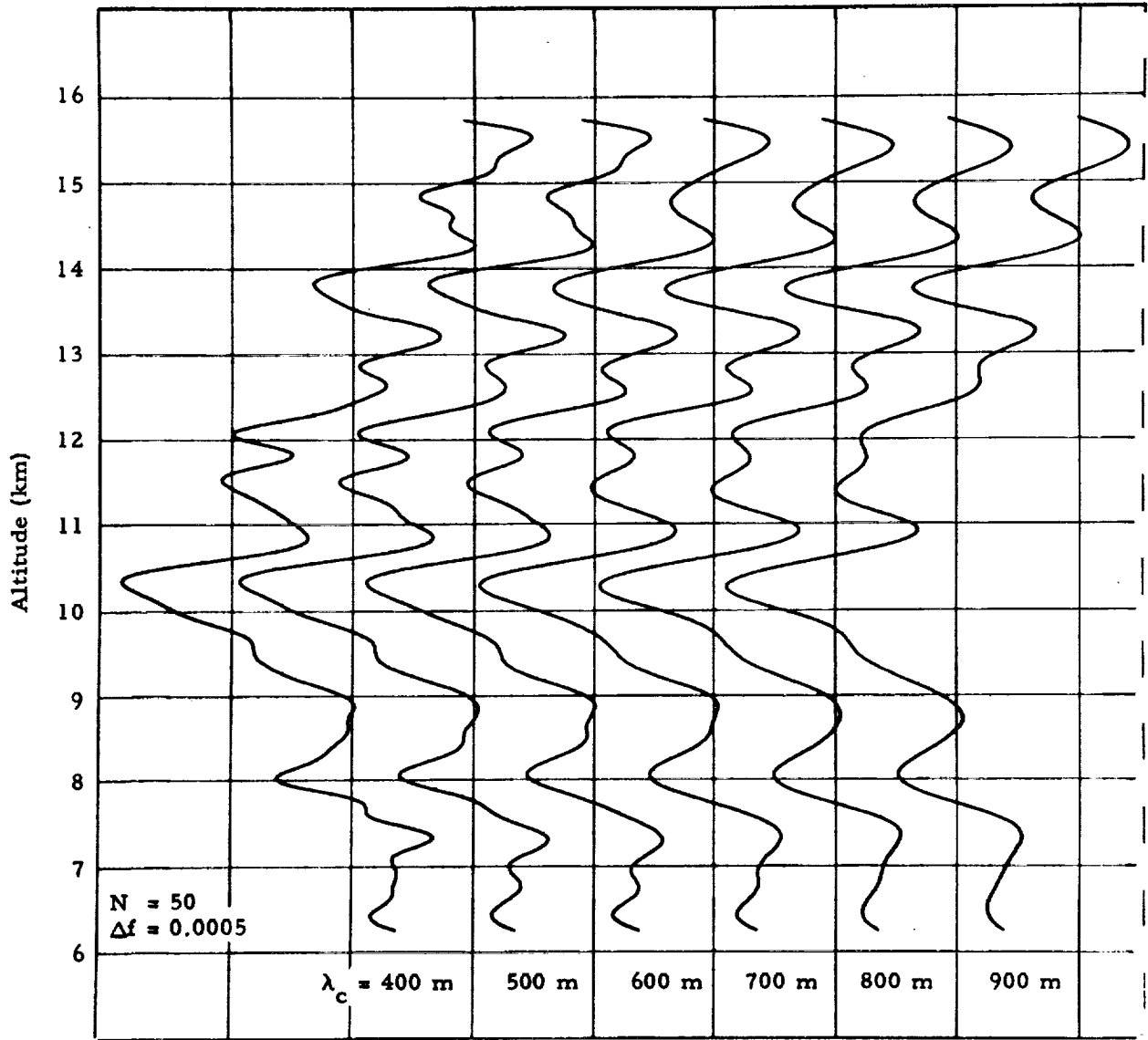


Fig. 4b - Effect of Shifting the Rolloff Interval - Filtered Meridional Component

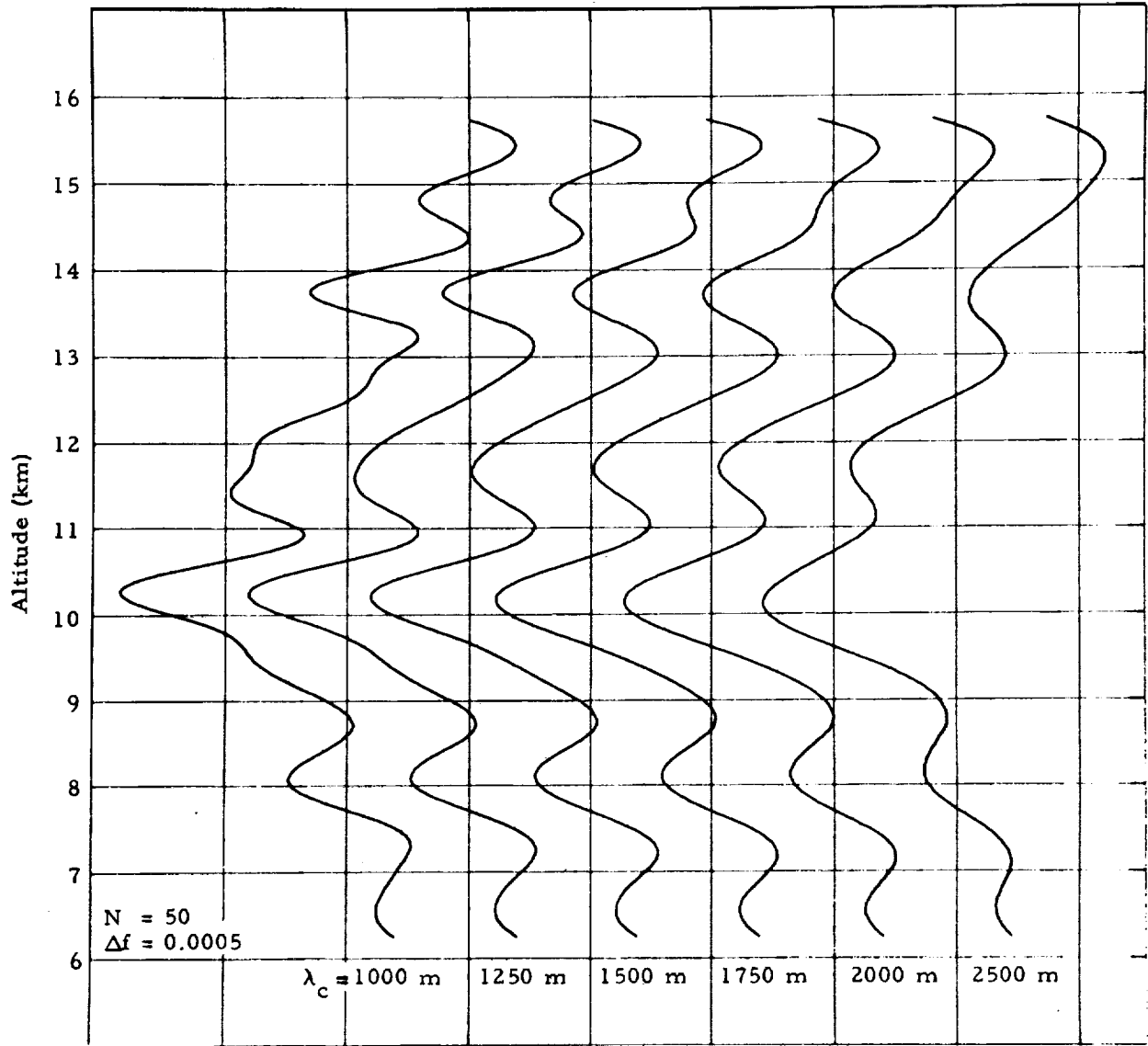


Fig. 4c - Effect of Shifting the Rolloff Interval - Filtered Meridional Component

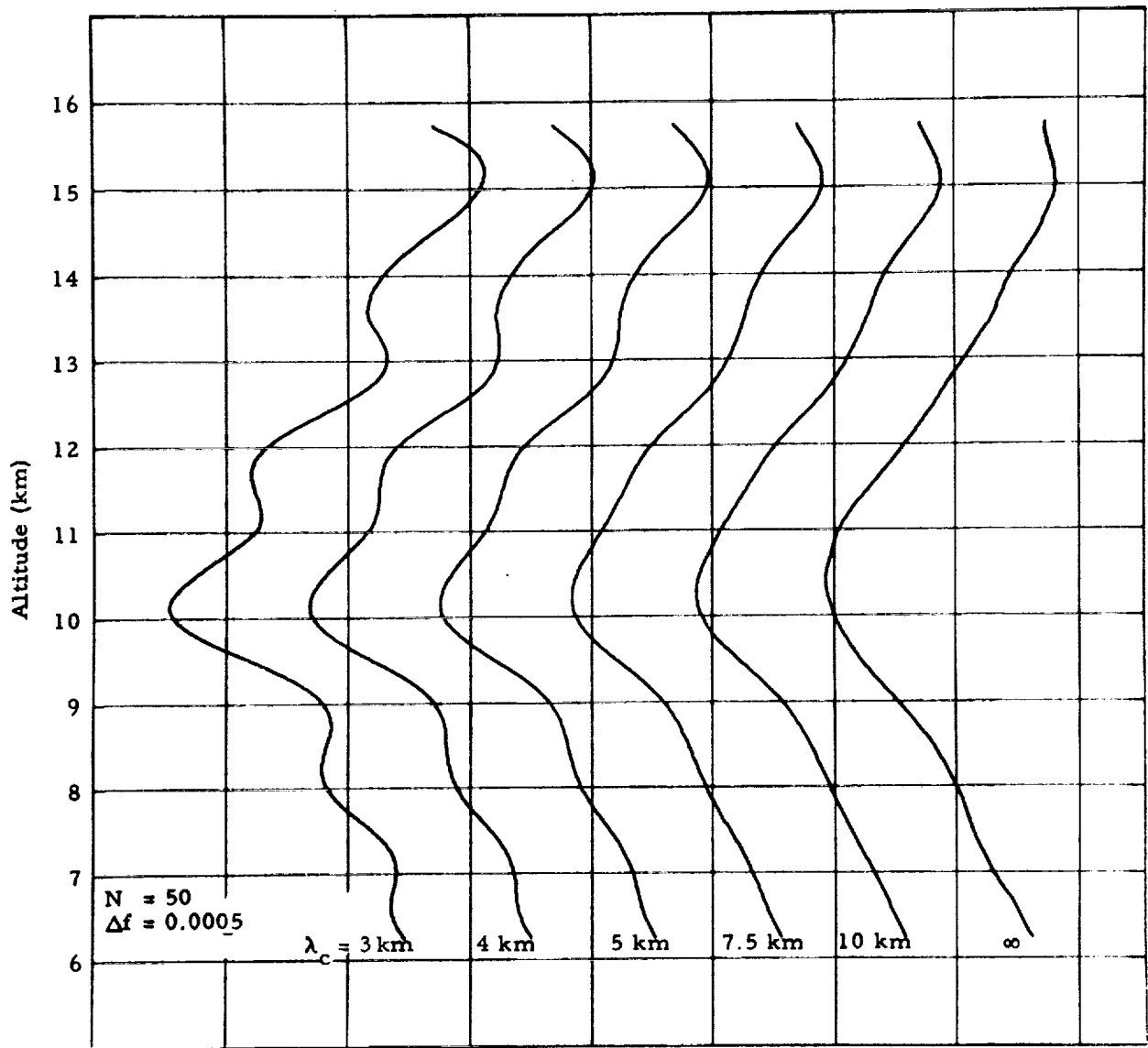


Fig. 4d - Effect of Shifting the Rolloff Interval - Filtered Meridional Component

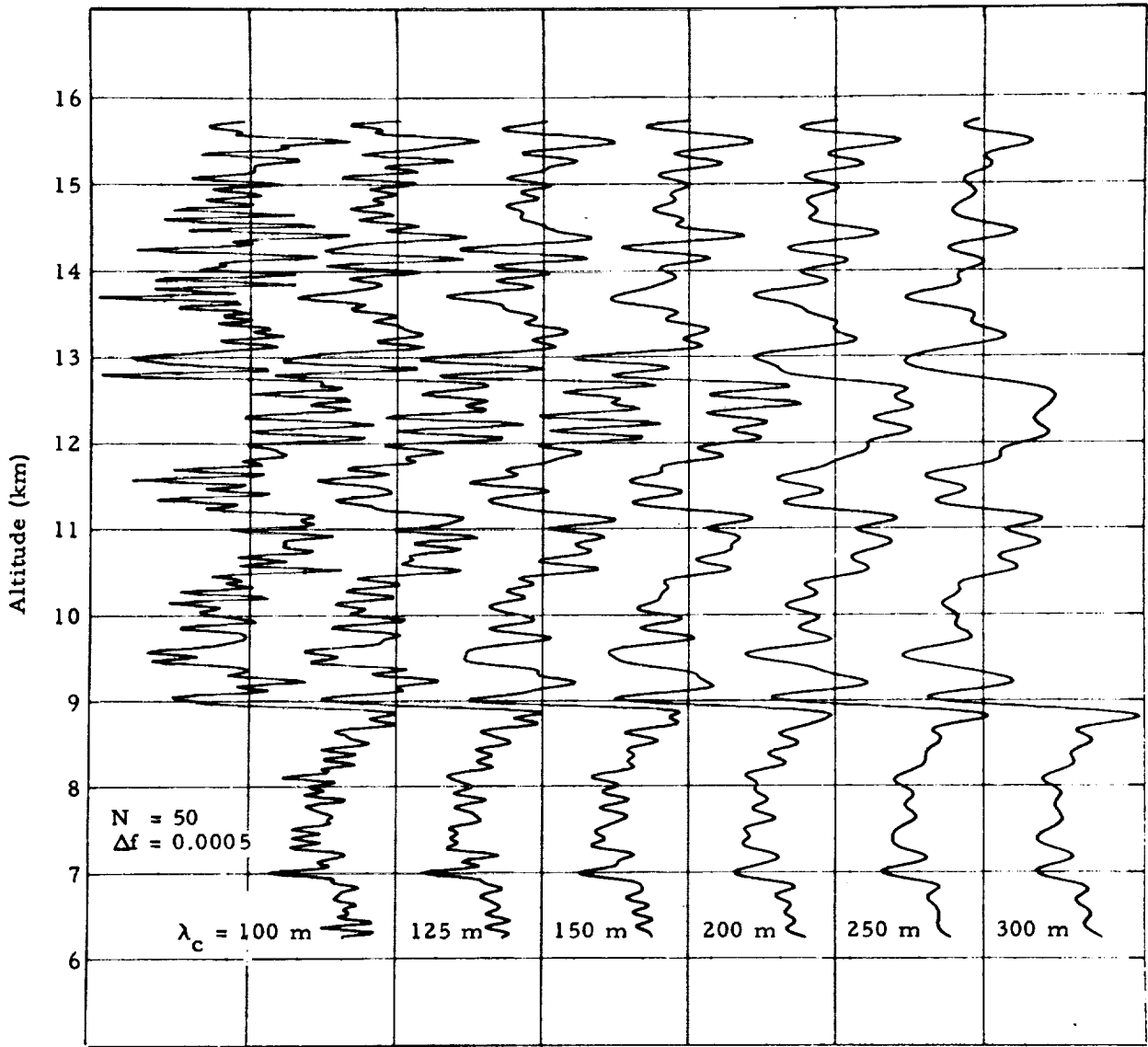


Fig. 5a - Effect of Shifting the Rolloff Interval - Filtered Ascent Rate

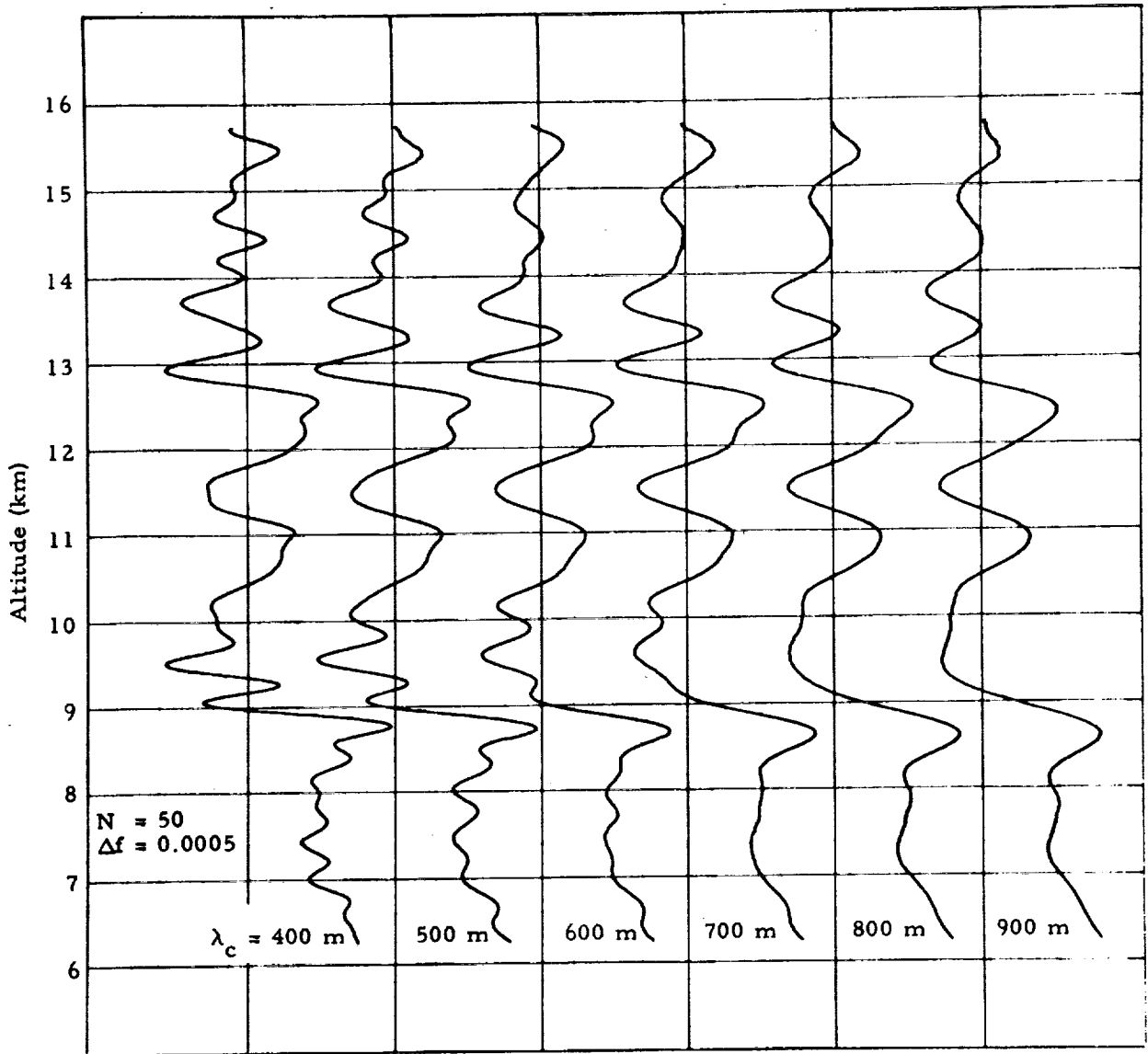


Fig. 5b - Effect of Shifting the Rolloff Interval - Filtered Ascent Rate

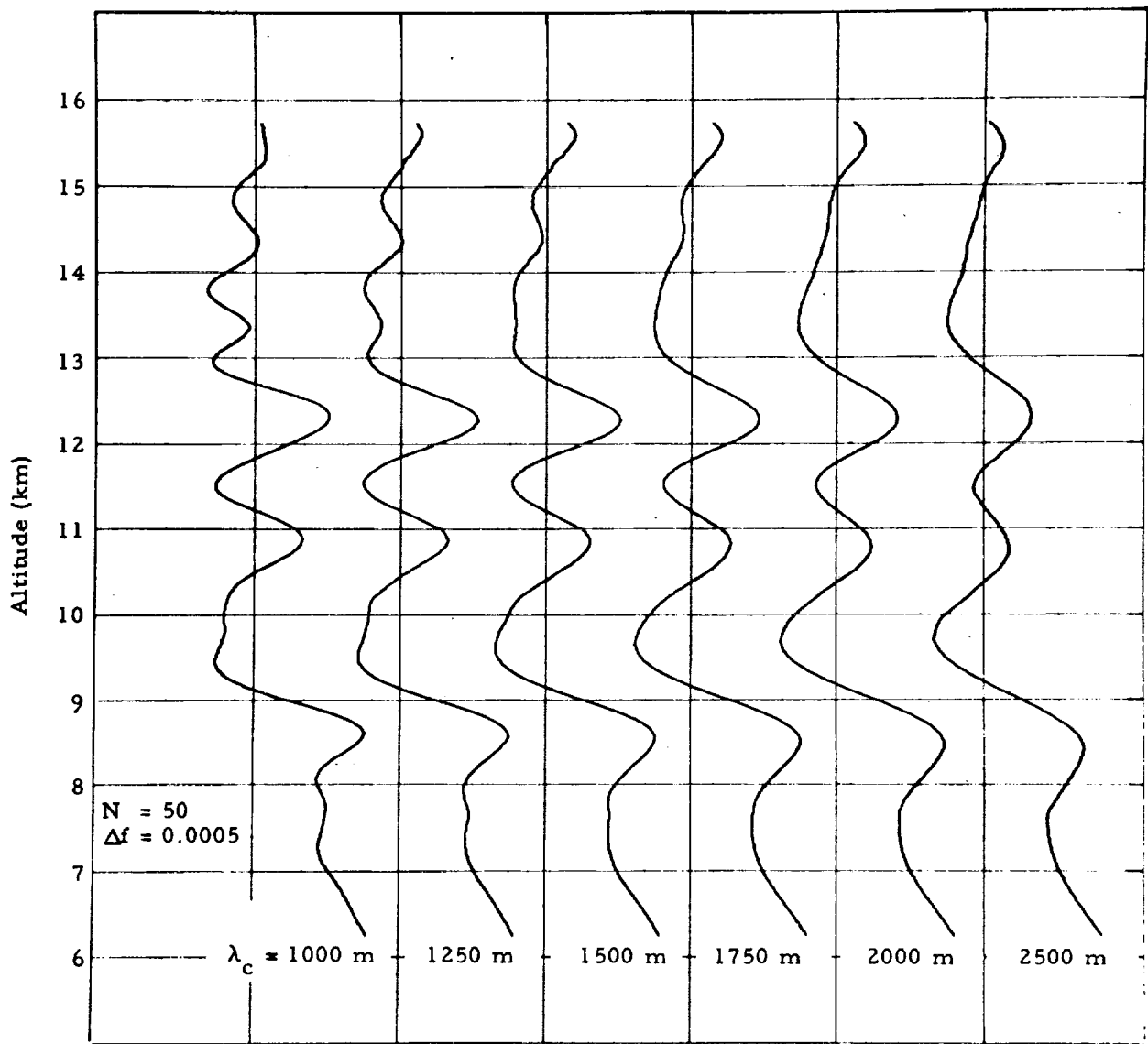


Fig. 5c - Effect of Shifting the Roffoff Interval - Filtered Ascent Rate

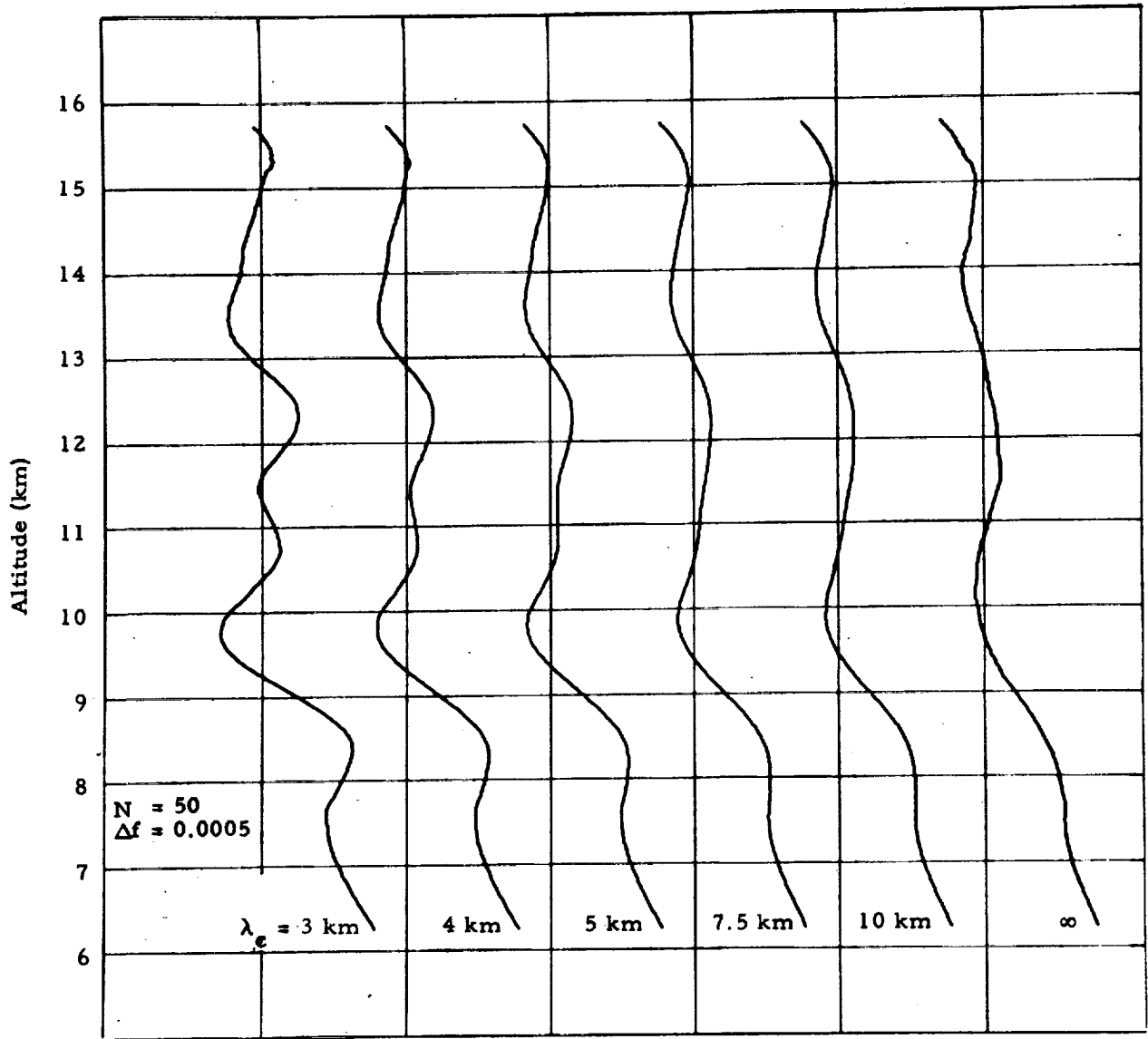


Fig. 5d - Effect of Shifting the Rolloff Interval - Filtered Ascent Rate

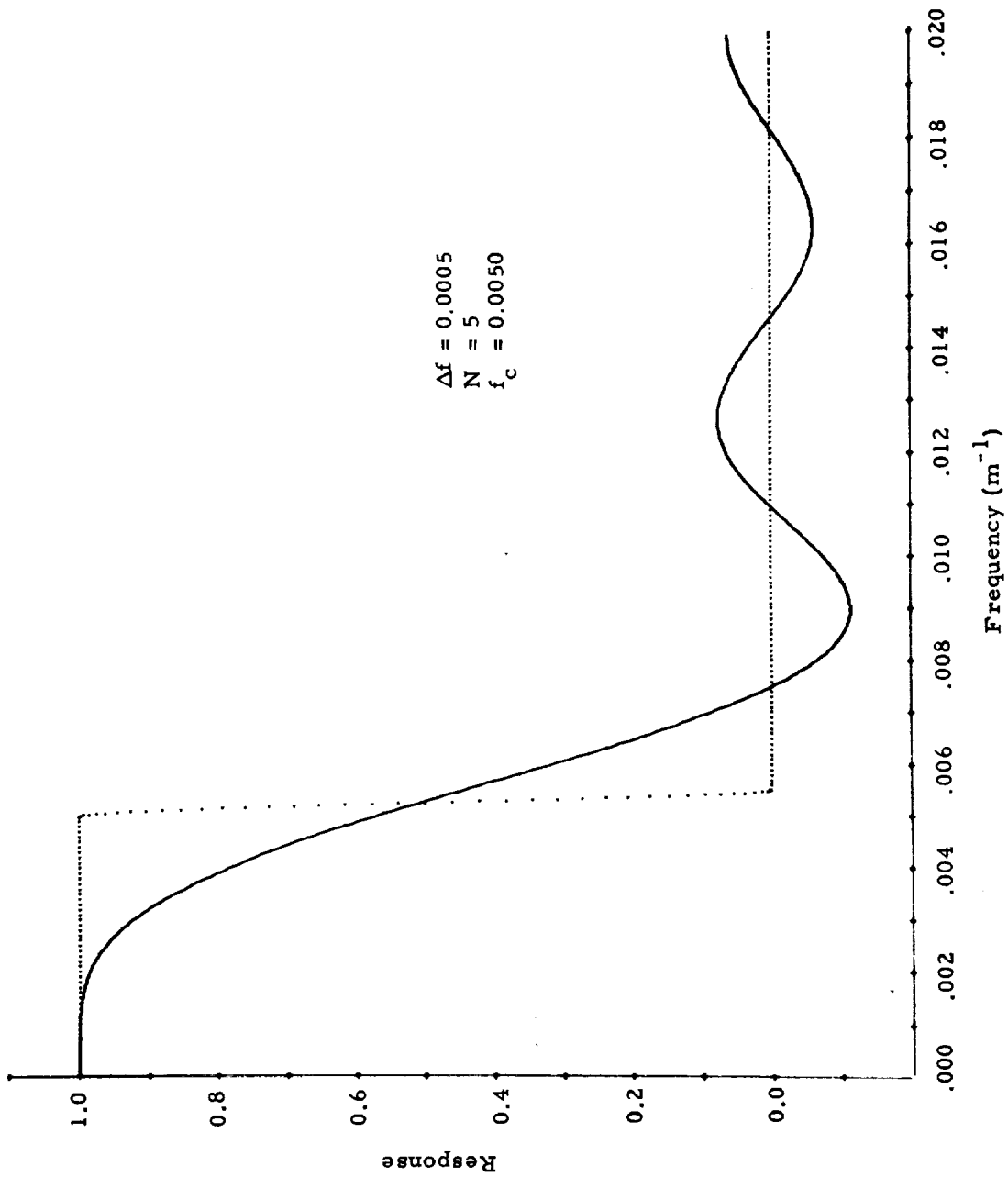


Fig. 6a - Effect of Varying the Number of Weights

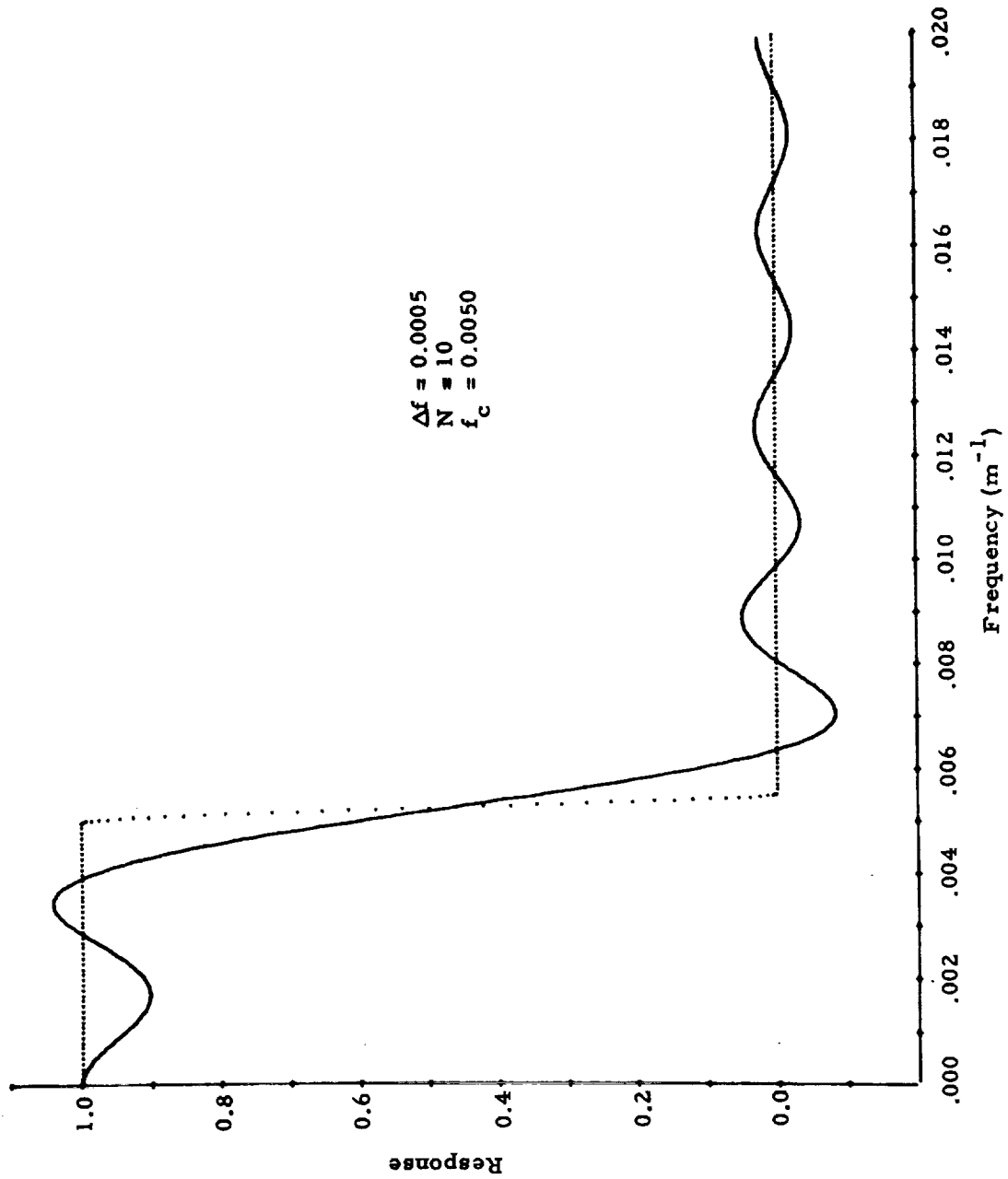


Fig. 6b - Effect of Varying the Number of Weights

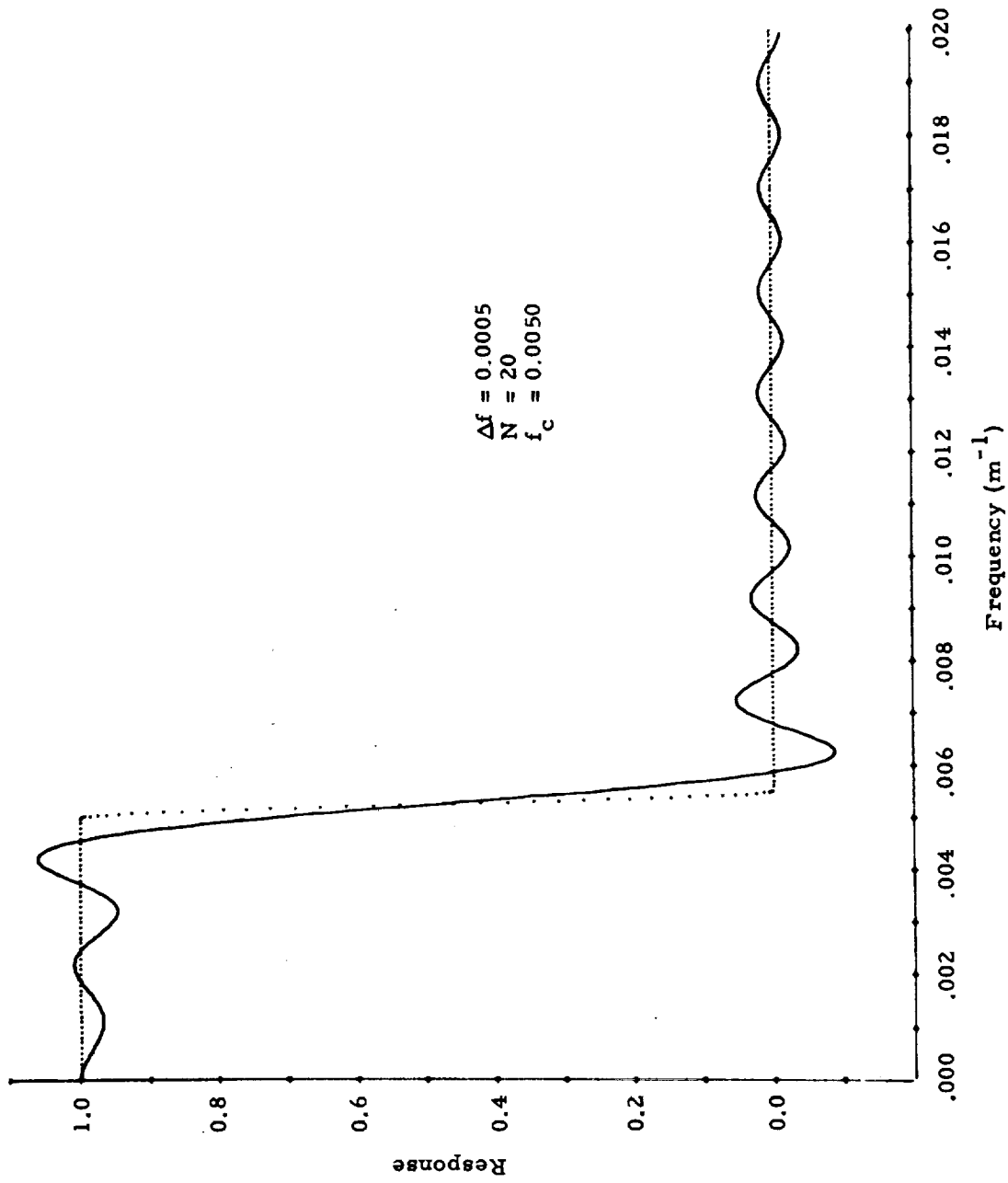


Fig. 6c - Effect of Varying the Number of Weights

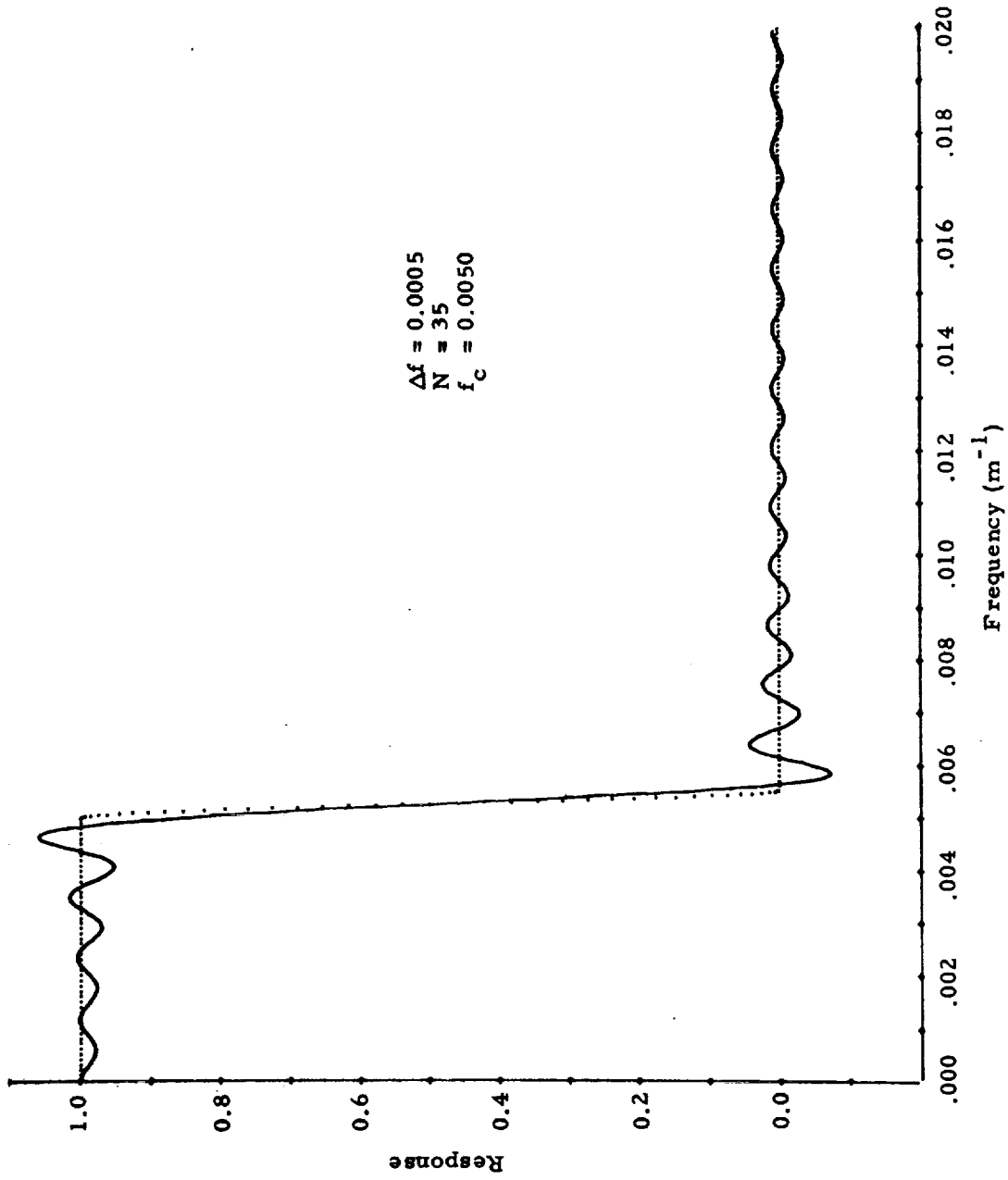


Fig. 6d - Effect of Varying the Number of Weights

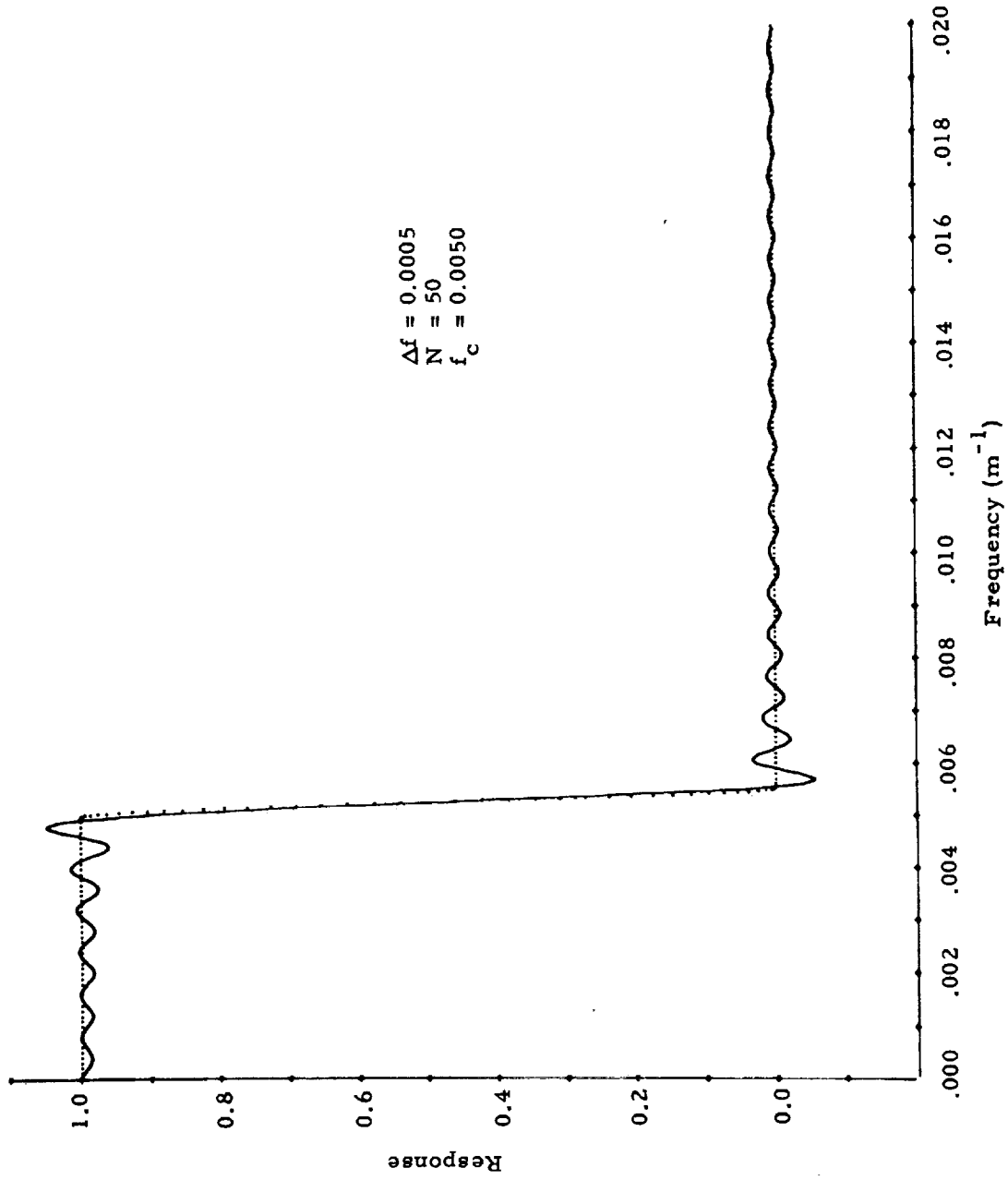


Fig. 6e - Effect of Varying the Number of Weights

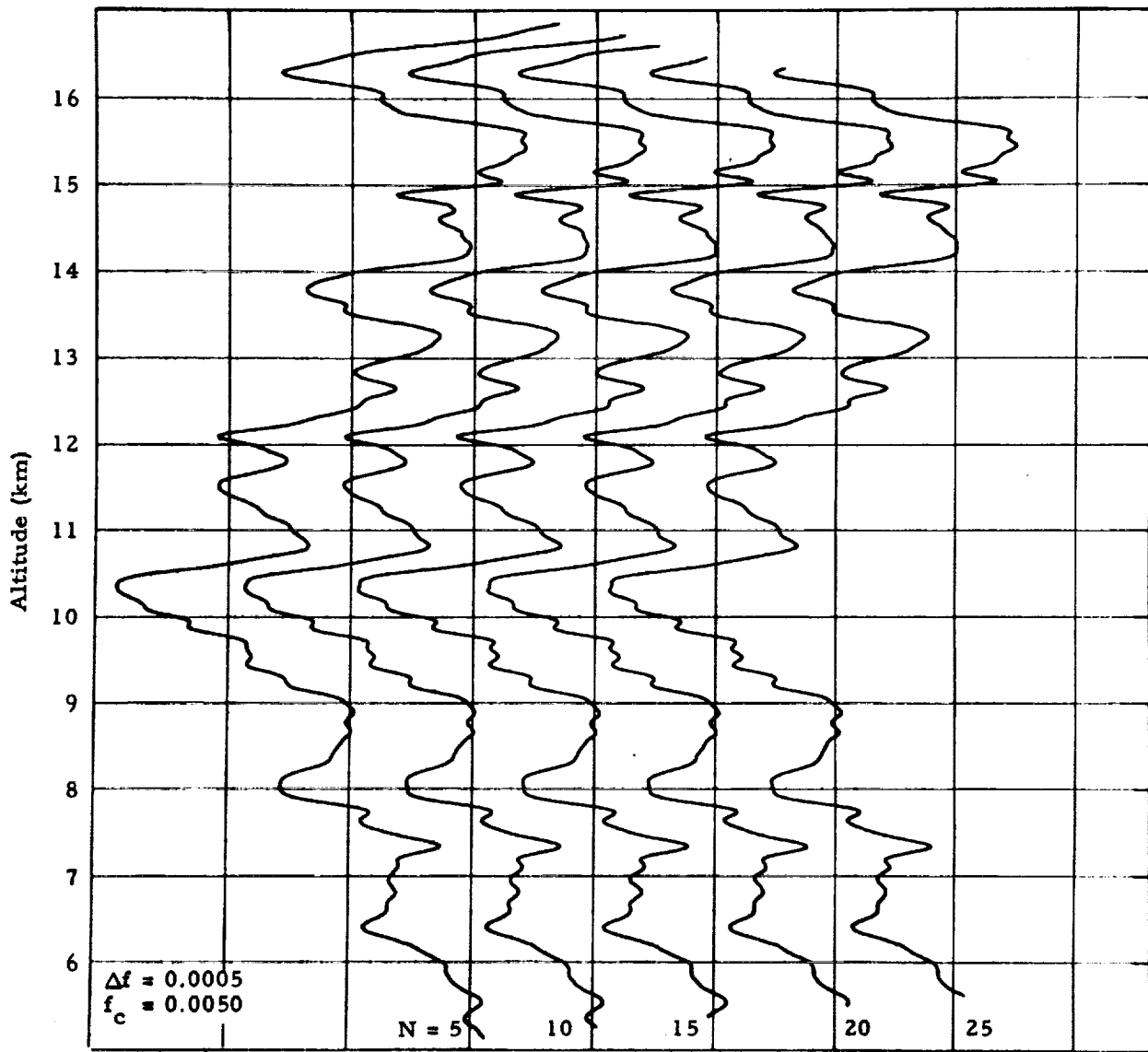


Fig. 7a - Effect of Varying the Number of Weights - Filtered Meridional Component

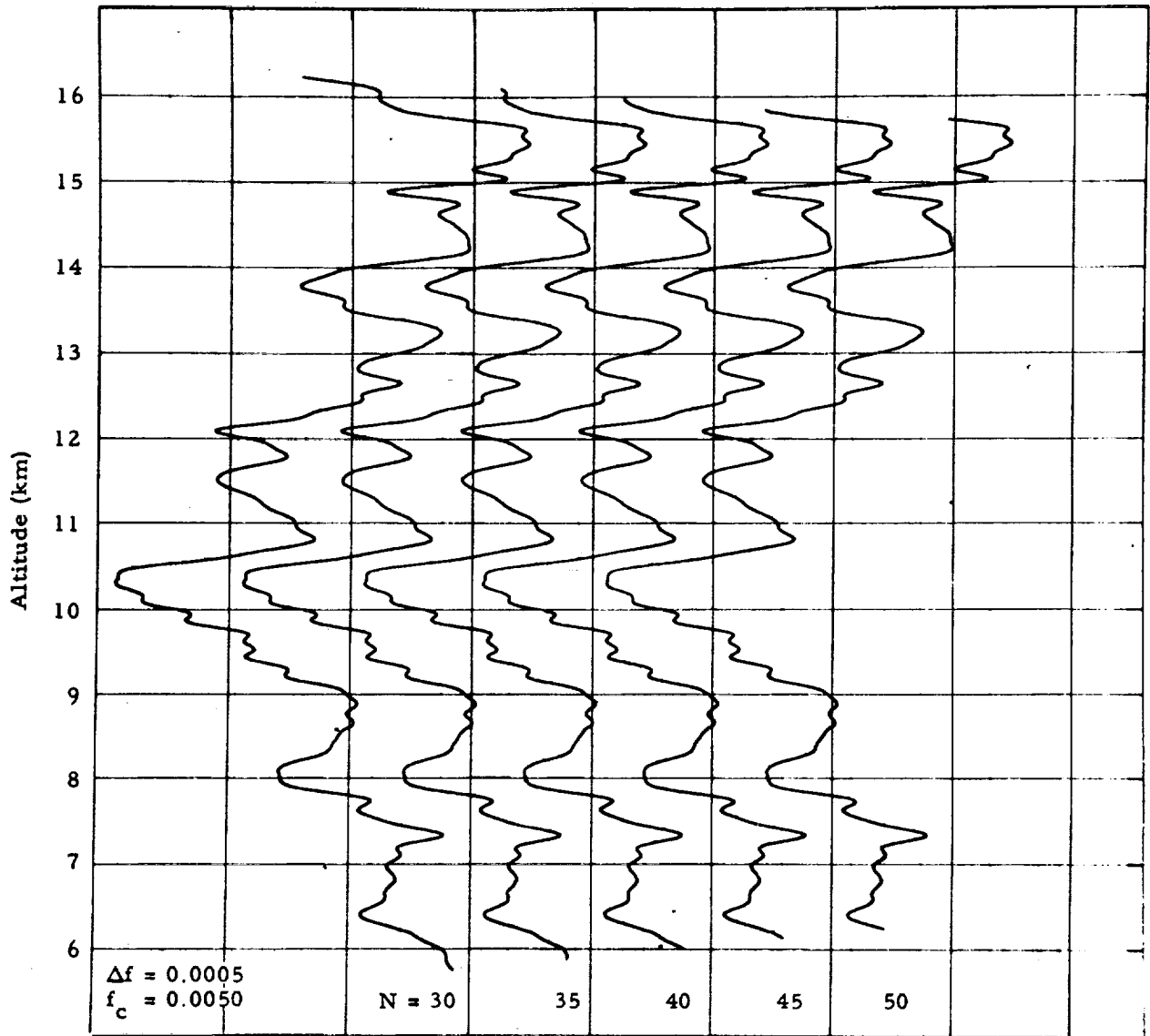


Fig. 7b - Effect of Varying the Number of Weights - Filtered Meridional Component

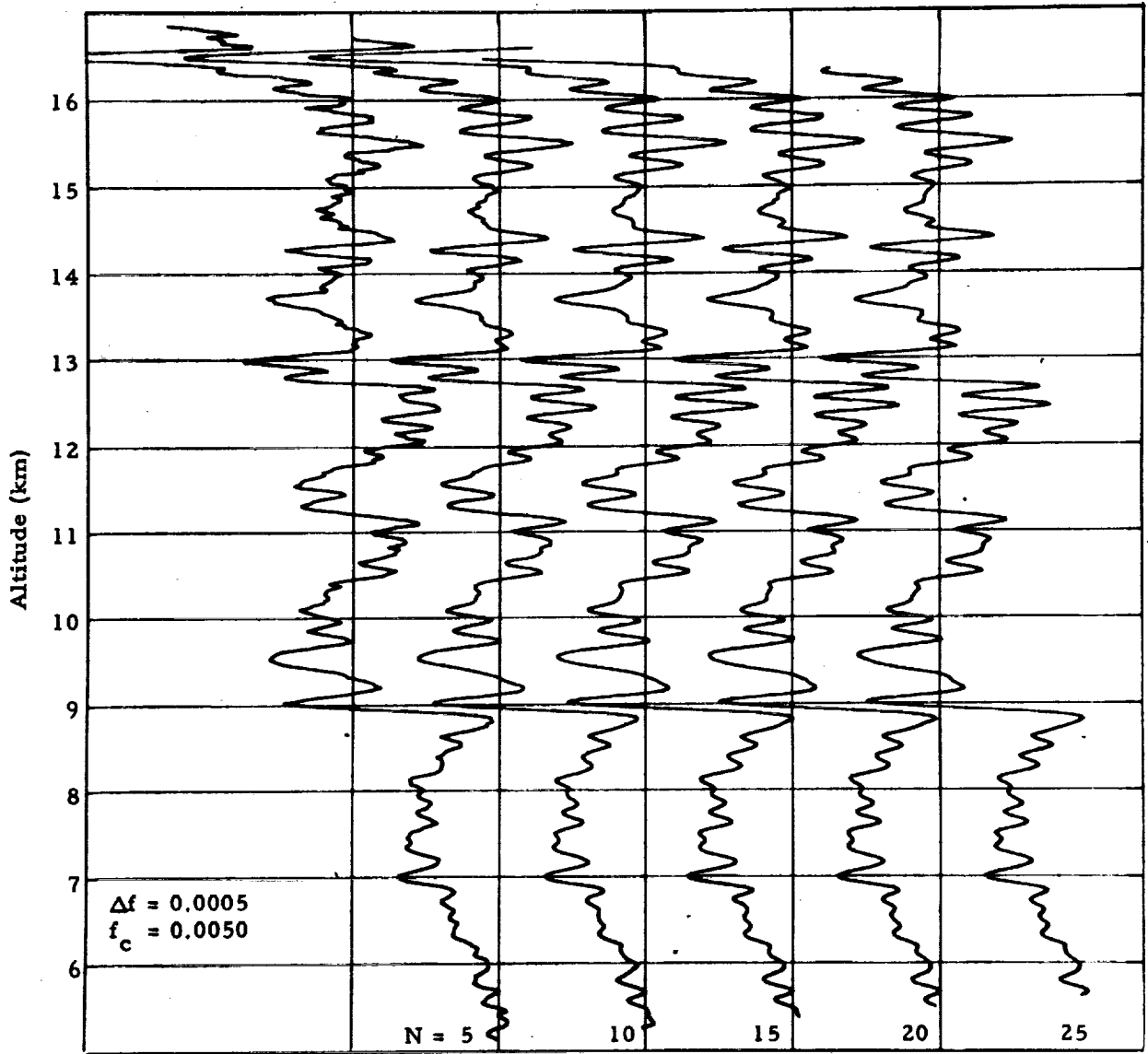


Fig. 8a - Effect of Varying the Number of Weights - Filtered Ascent Rate

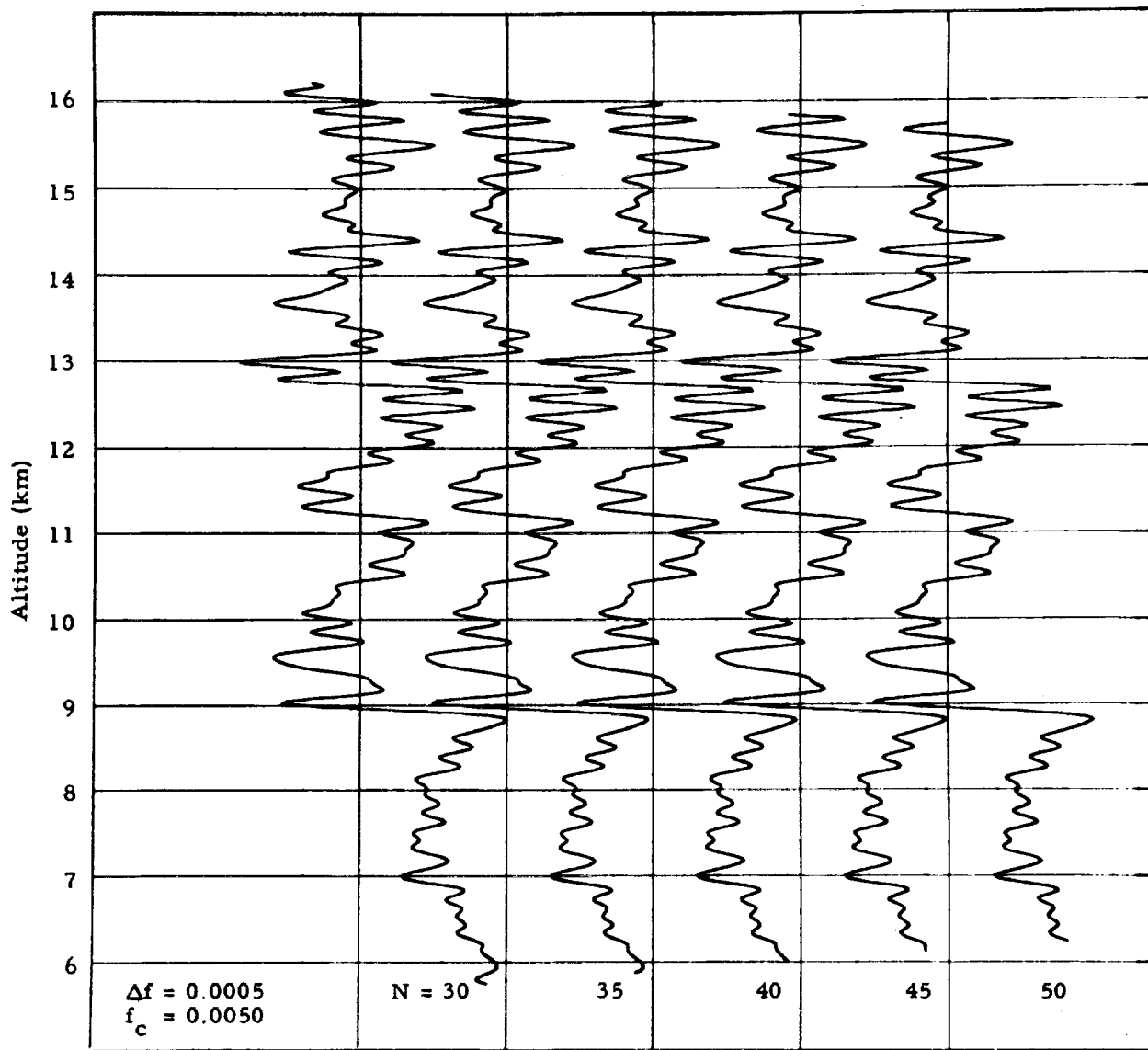


Fig. 8b - Effect of Varying the Number of Weights - Filtered Ascent Rate

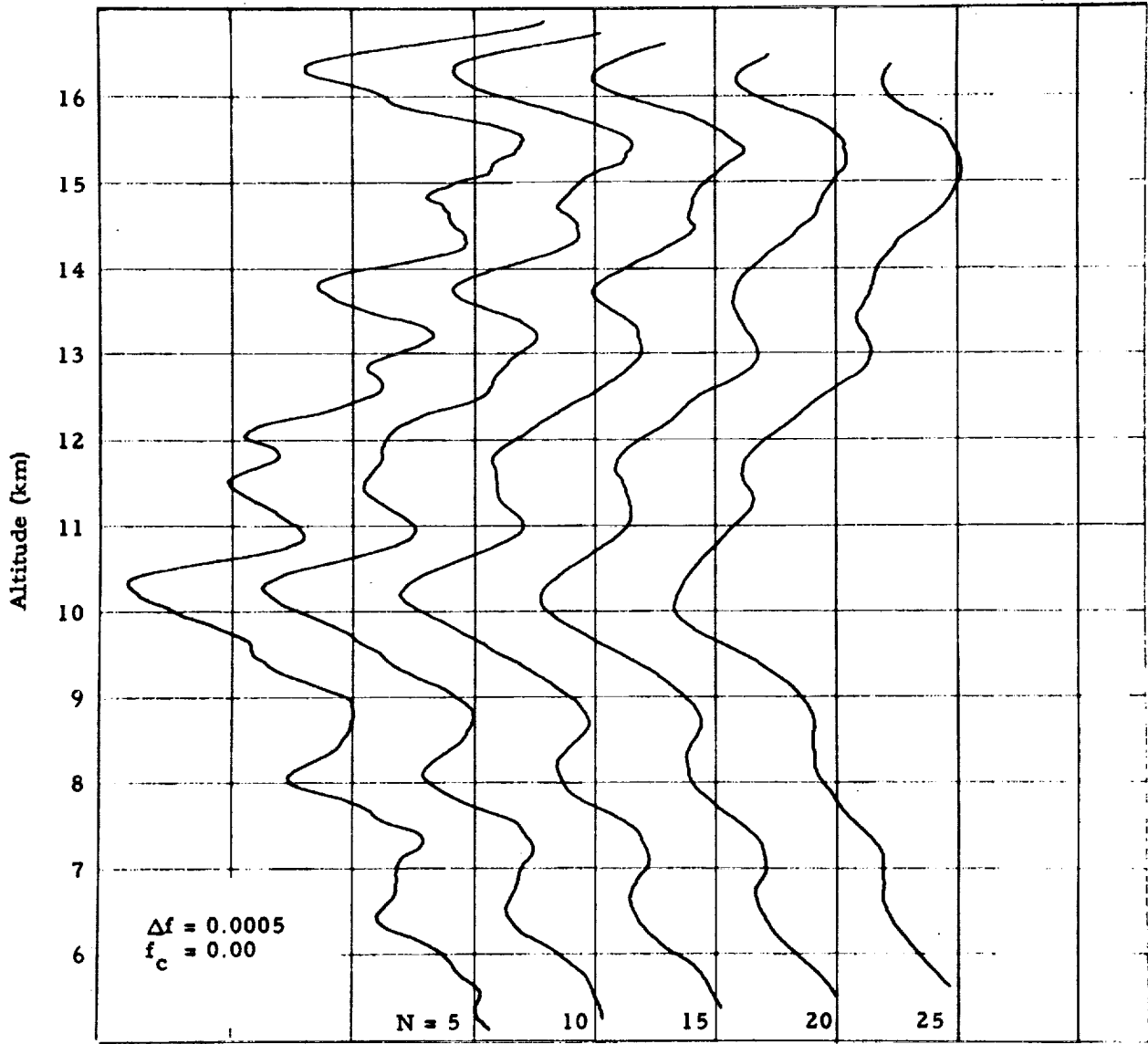


Fig. 9a - Effect of Varying the Number of Weights - Filtered Meridional Component

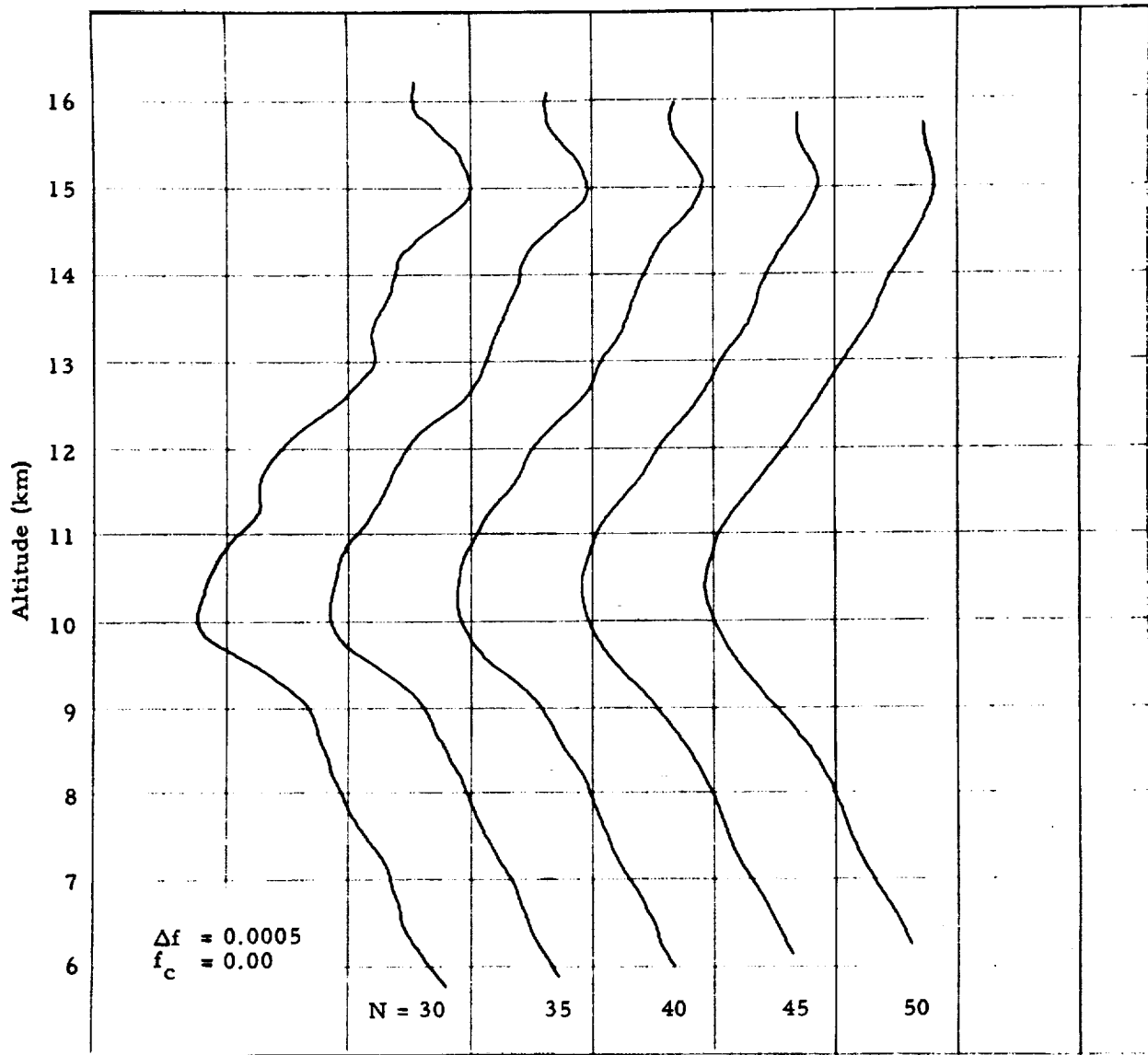


Fig. 9b - Effect of Varying the Number of Weights - Filtered Meridional Component

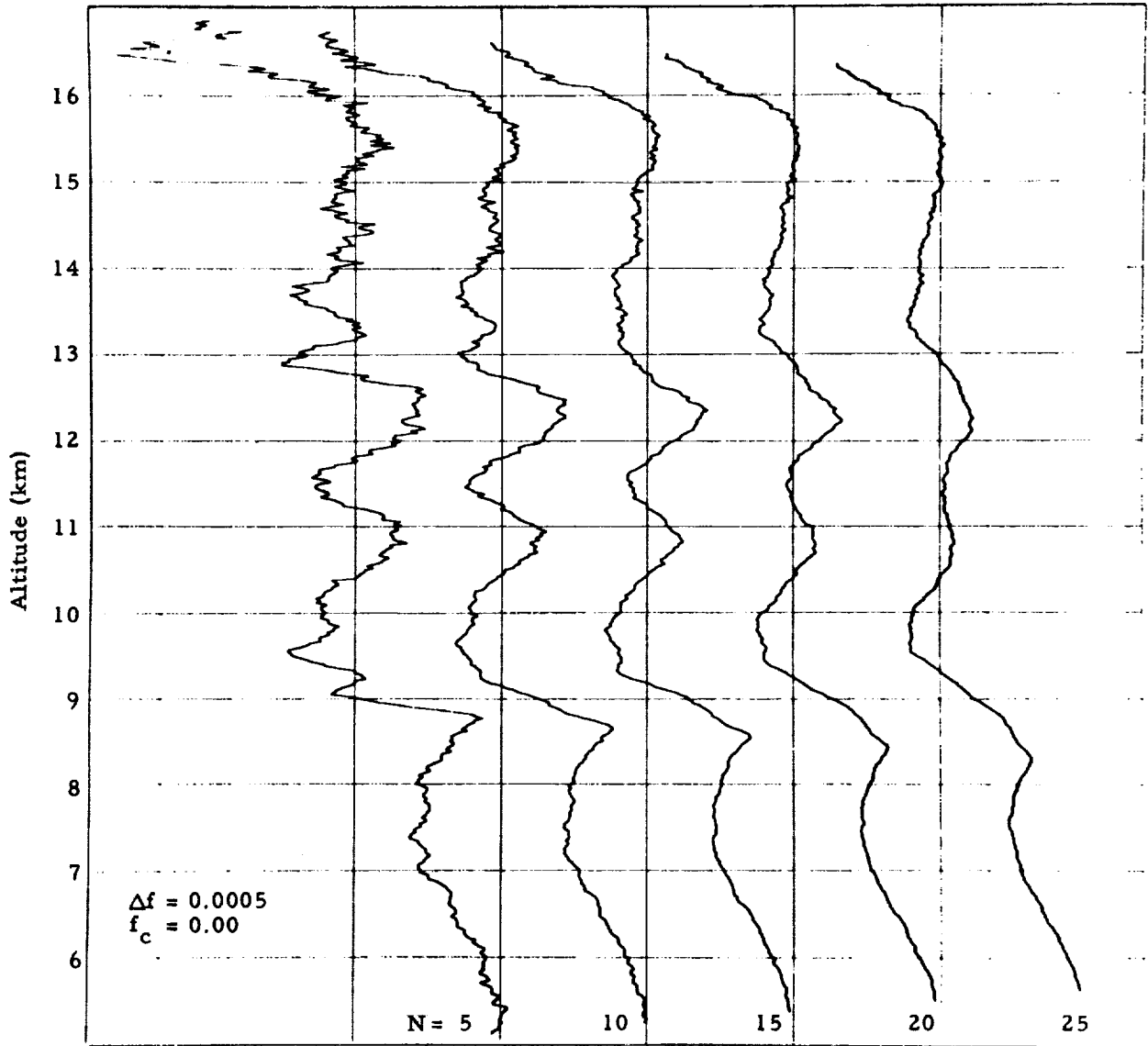


Fig. 10a - Effect of Varying the Number of Weights - Filtered Ascent Rate

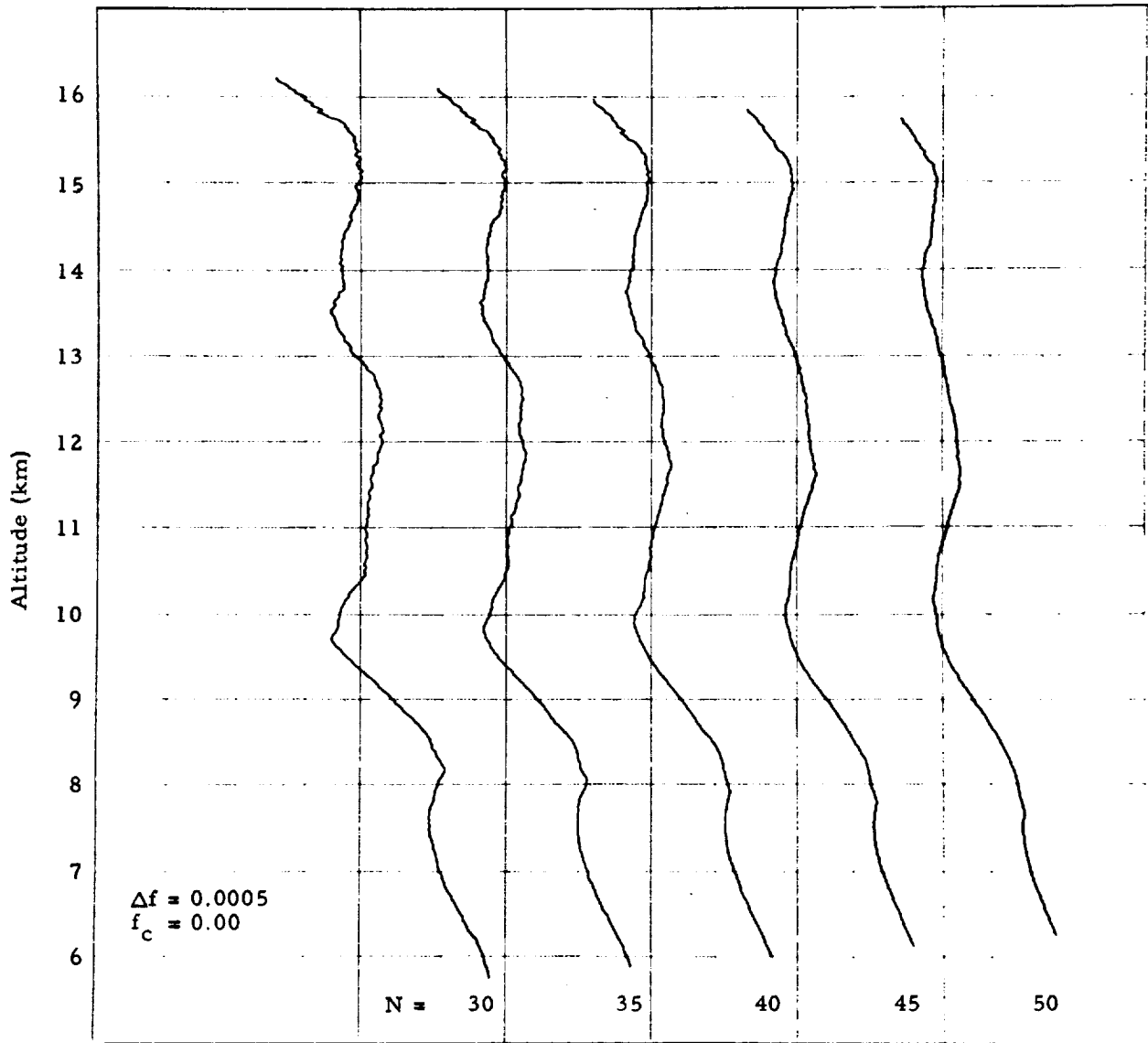


Fig. 10b - Effect of Varying the Number of Weights - Filtered Ascent Rate

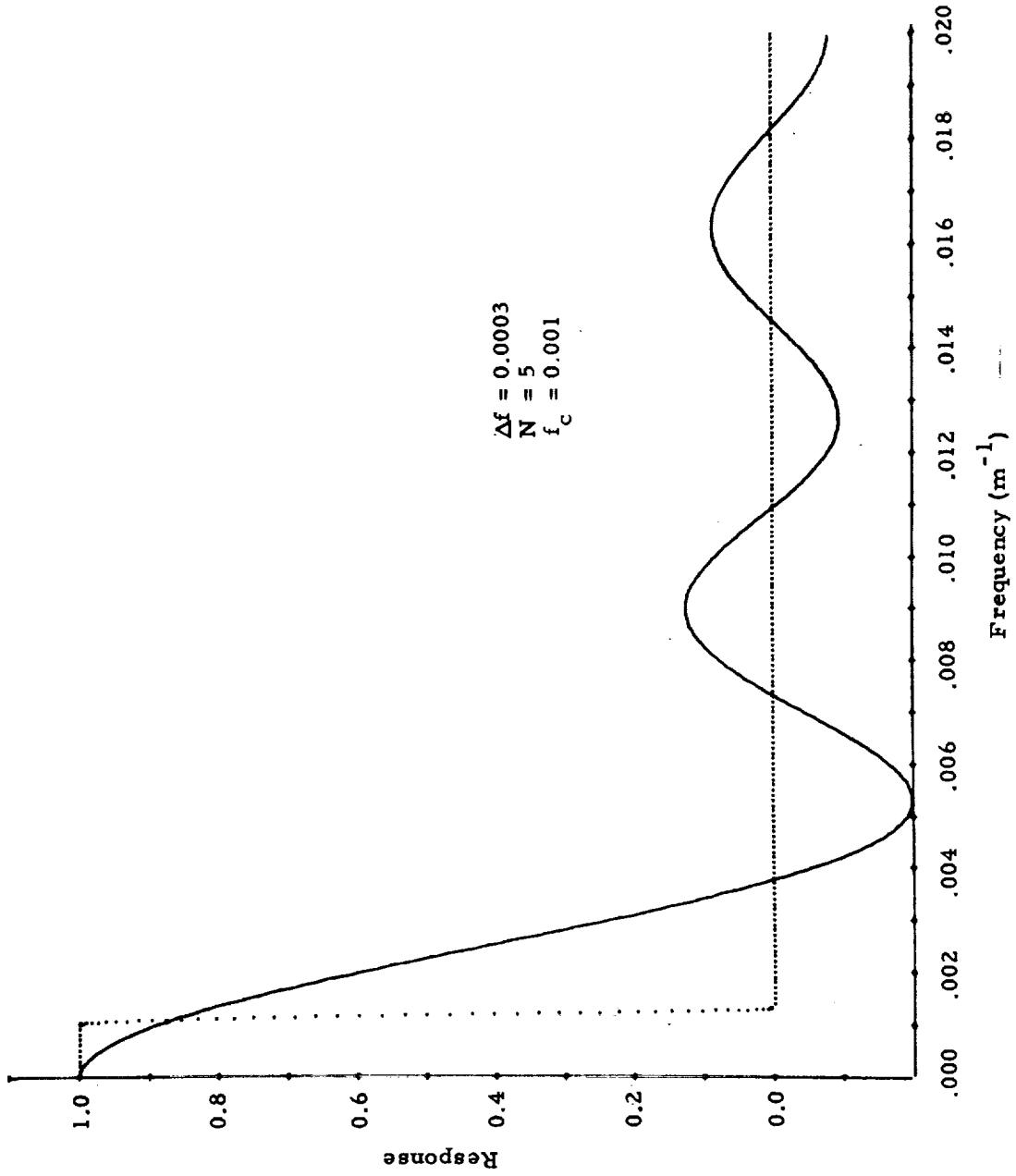


Fig. 11a - Effect of Varying Δf

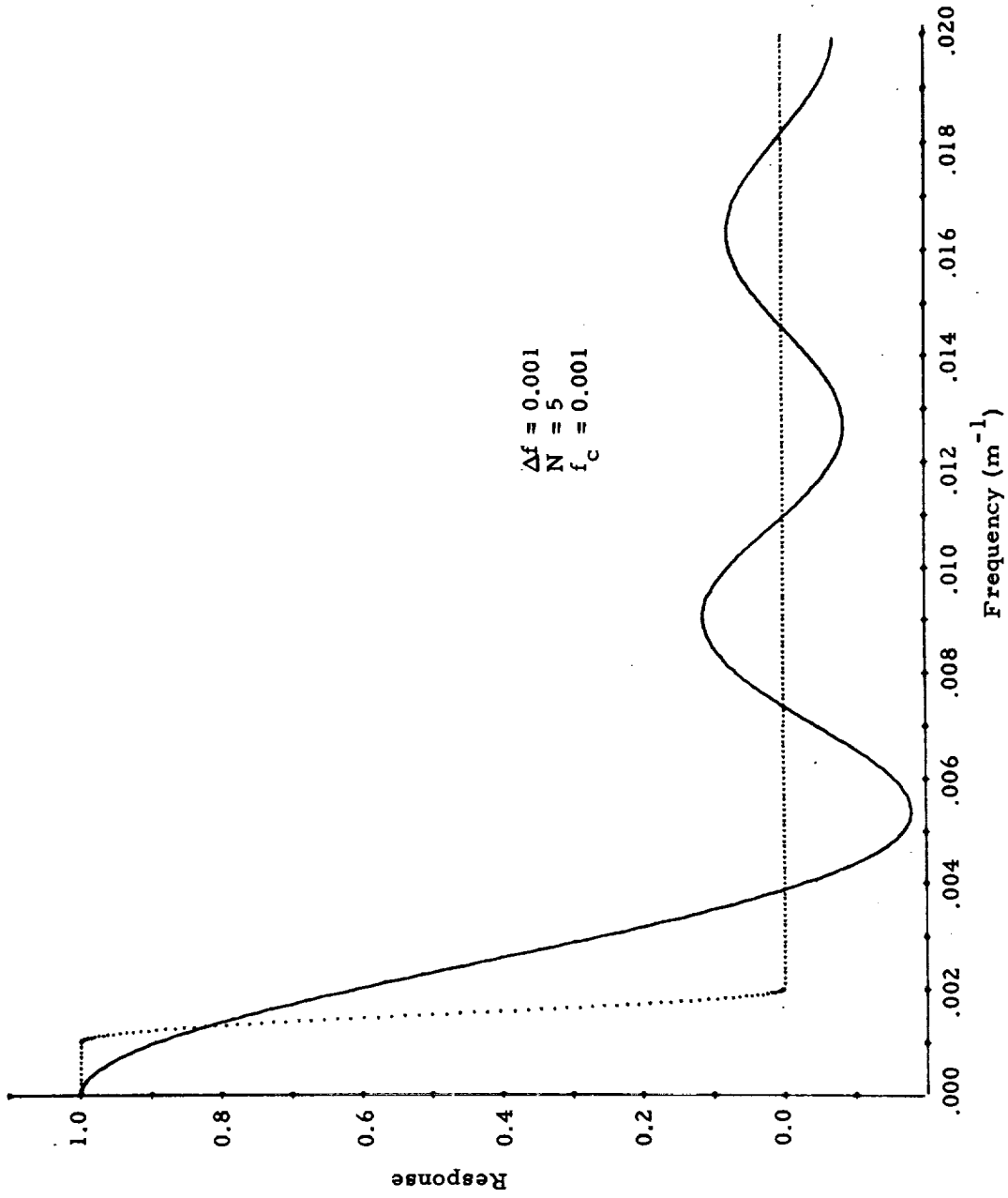


Fig. 11b - Effect of Varying Δf

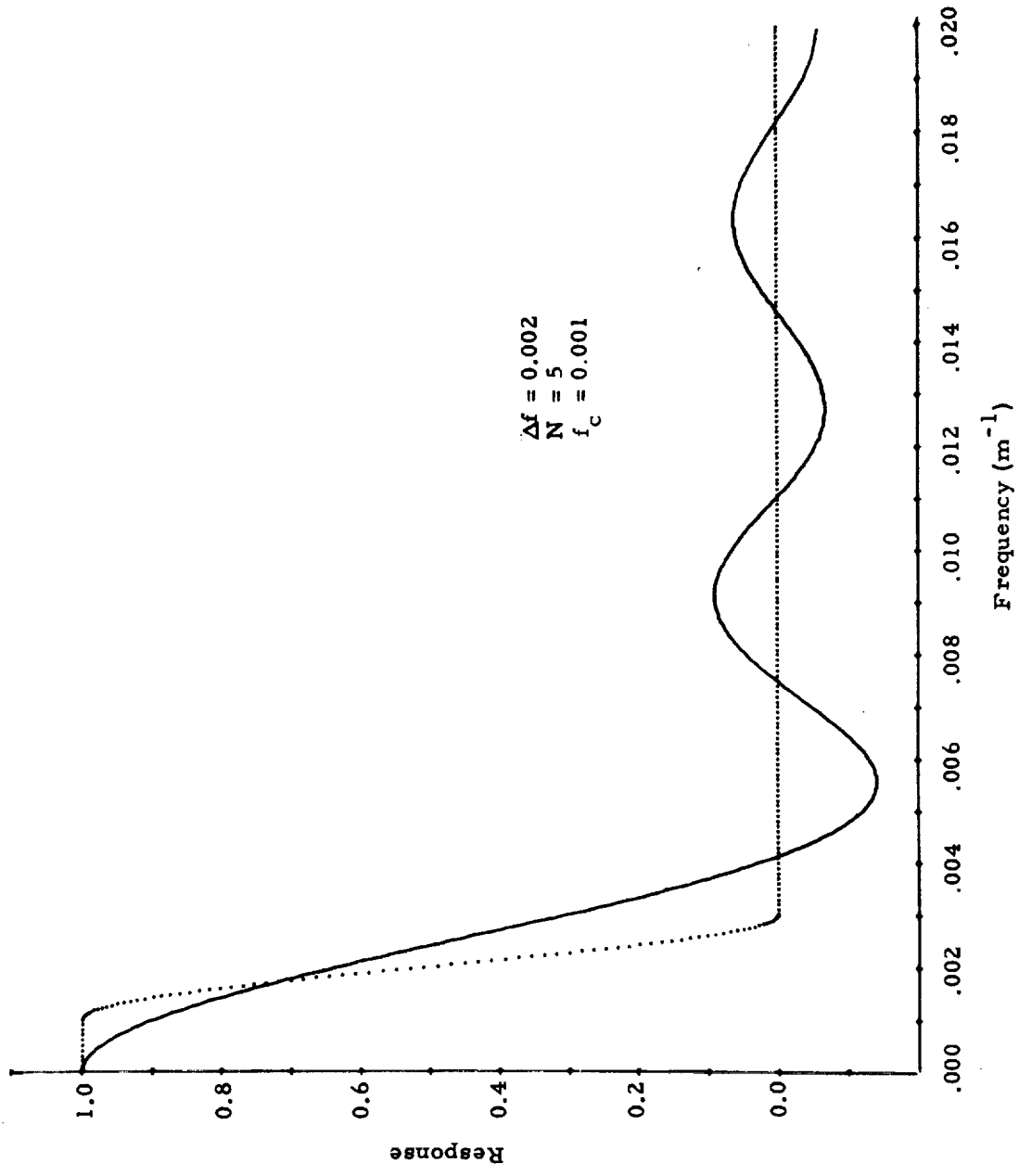


Fig. 11c - Effect of Varying Δf

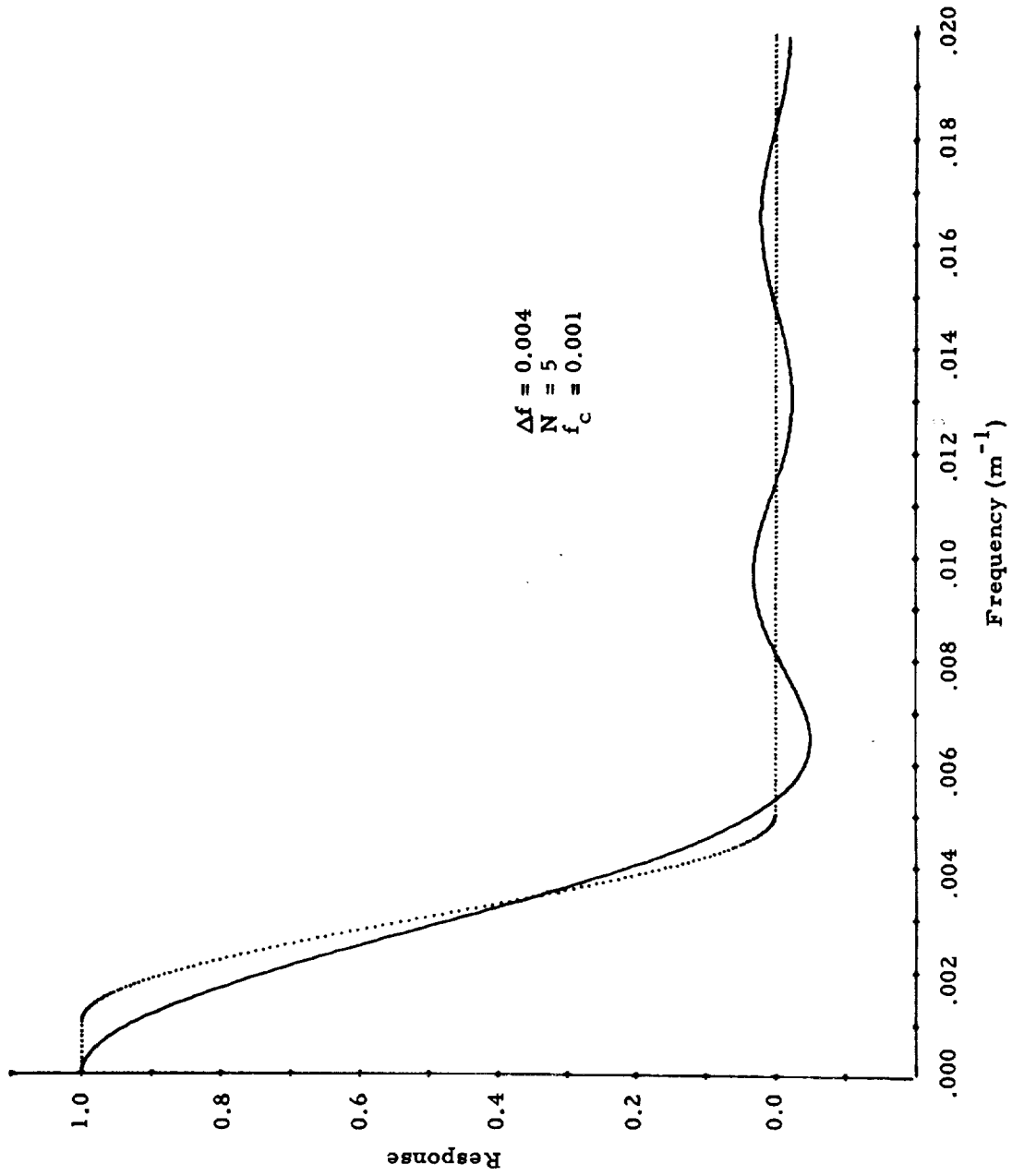


Fig. 11d - Effect of Varying Δf

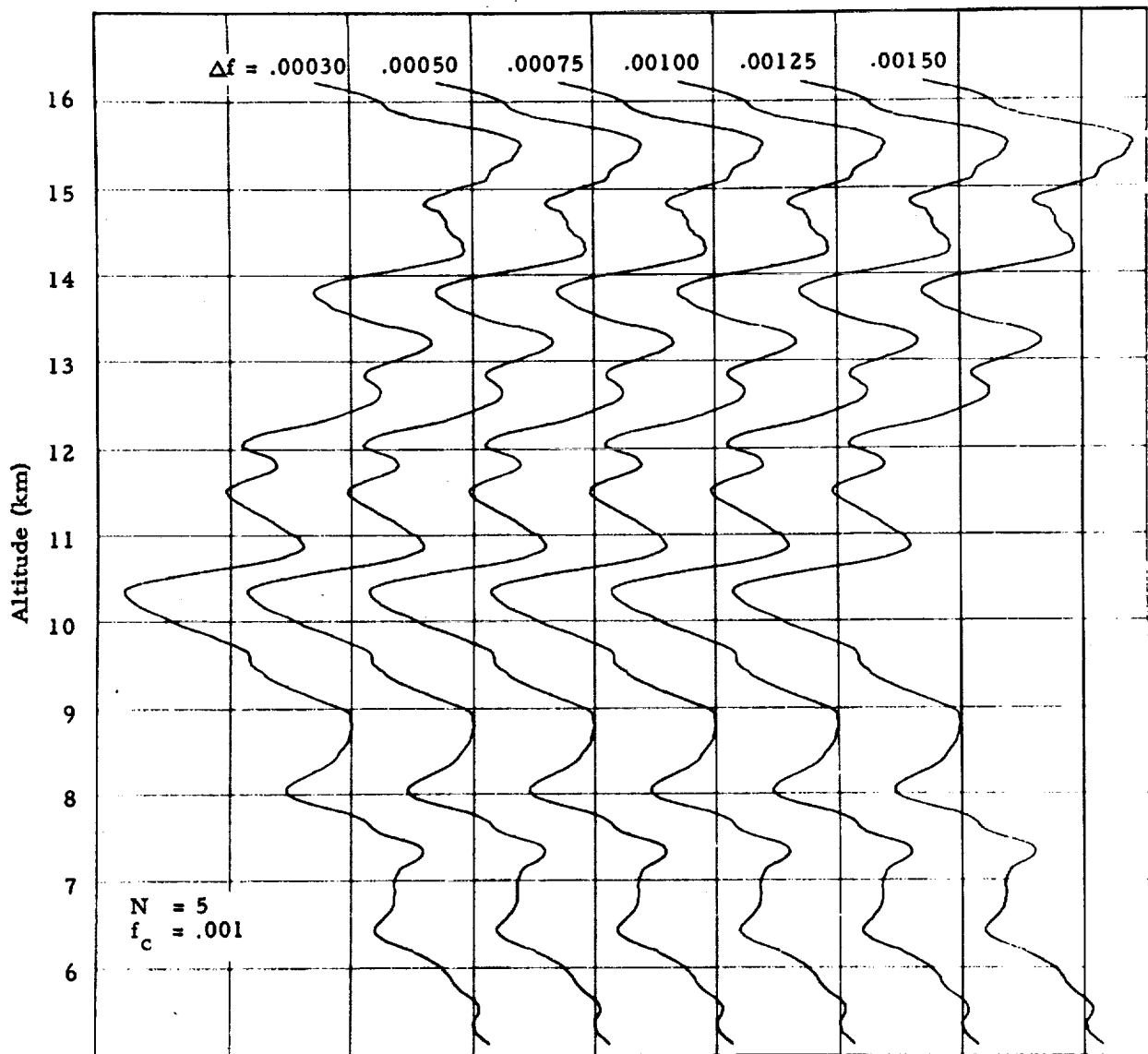


Fig. 12a - Effect of Varying Δf -Filtered Meridional Component

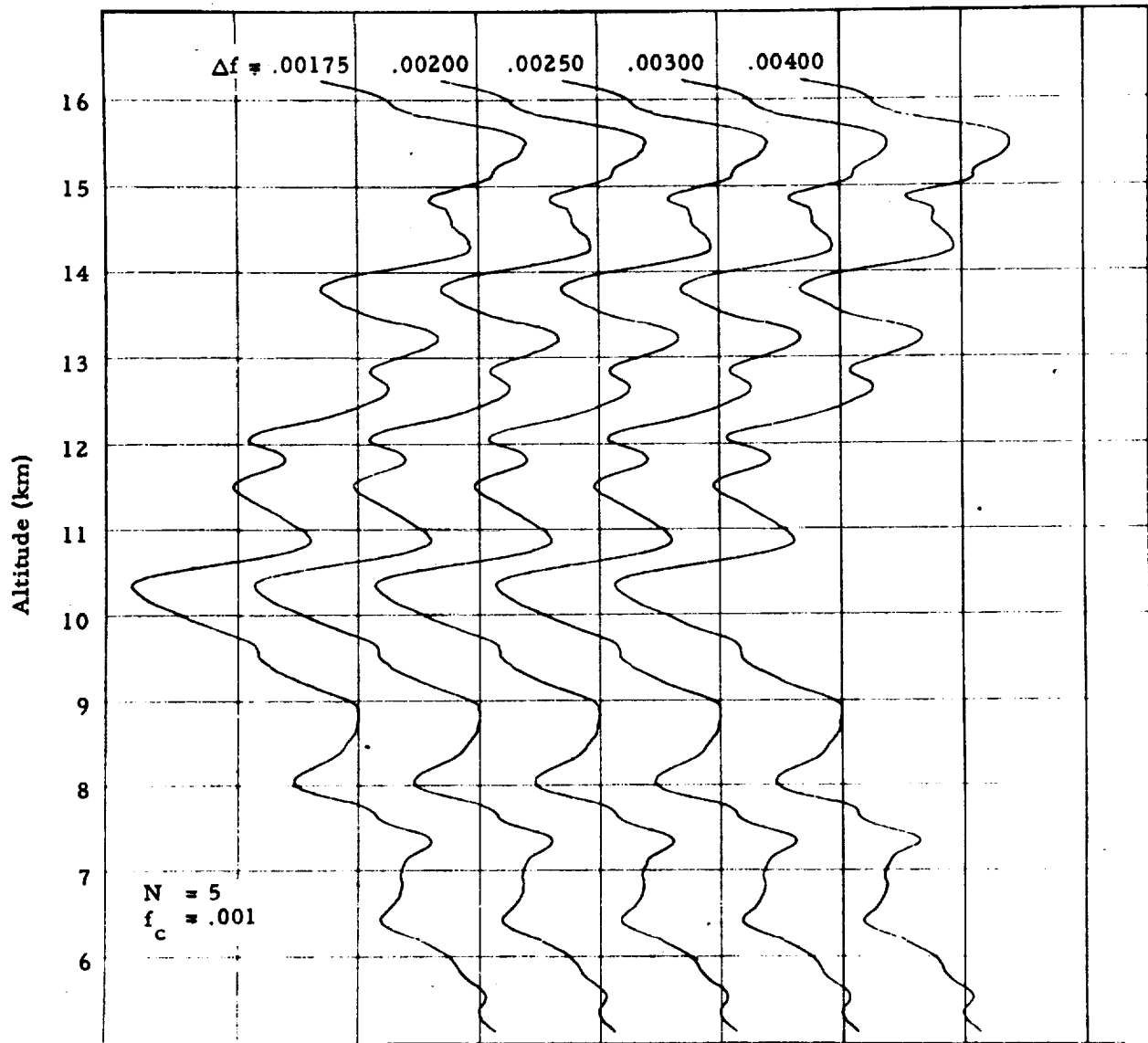


Fig. 12b - Effect of Varying Δf -Filtered Meridional Component

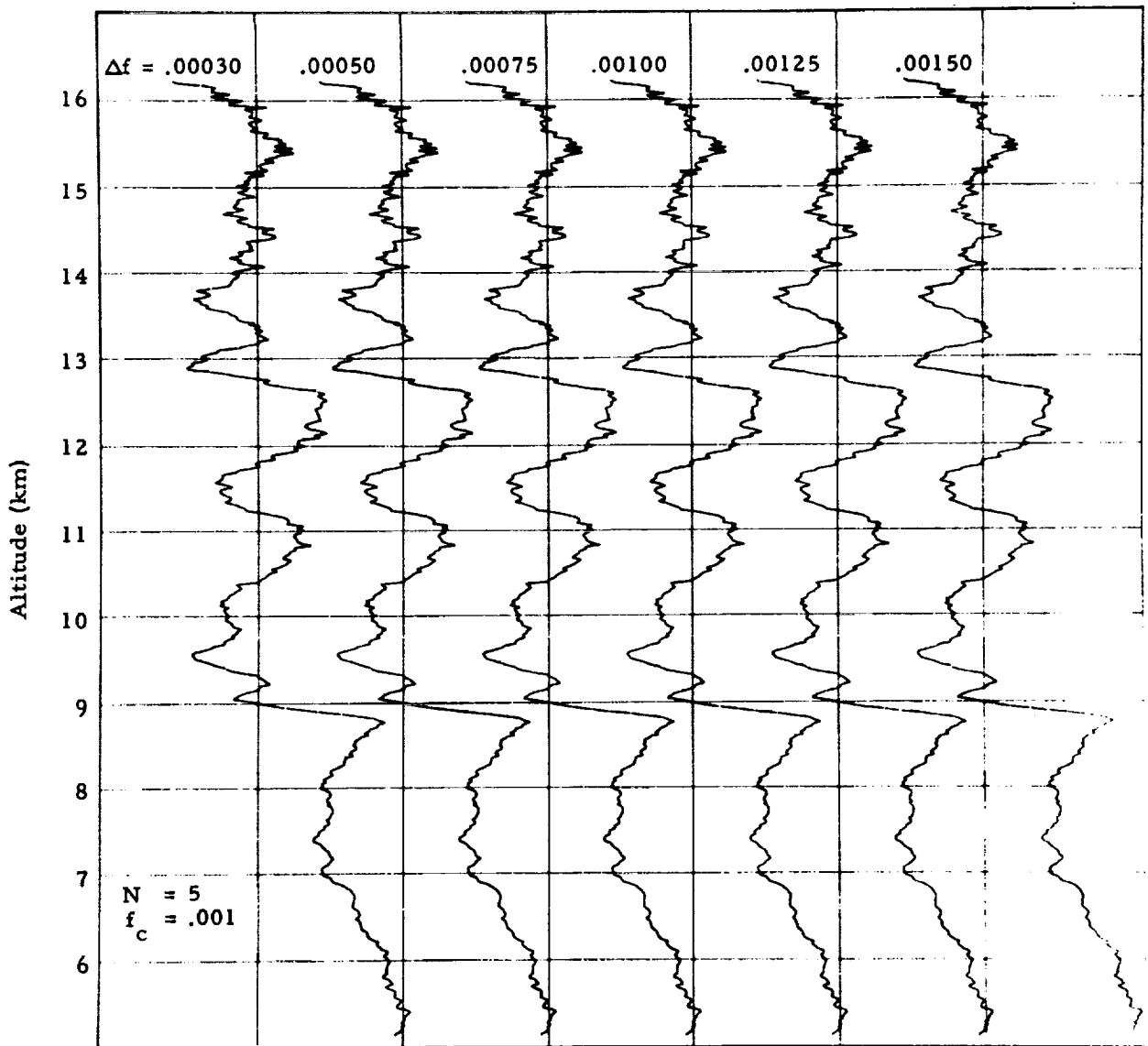


Fig. 13a - Effect of Varying Δf - Filtered Ascent Rate

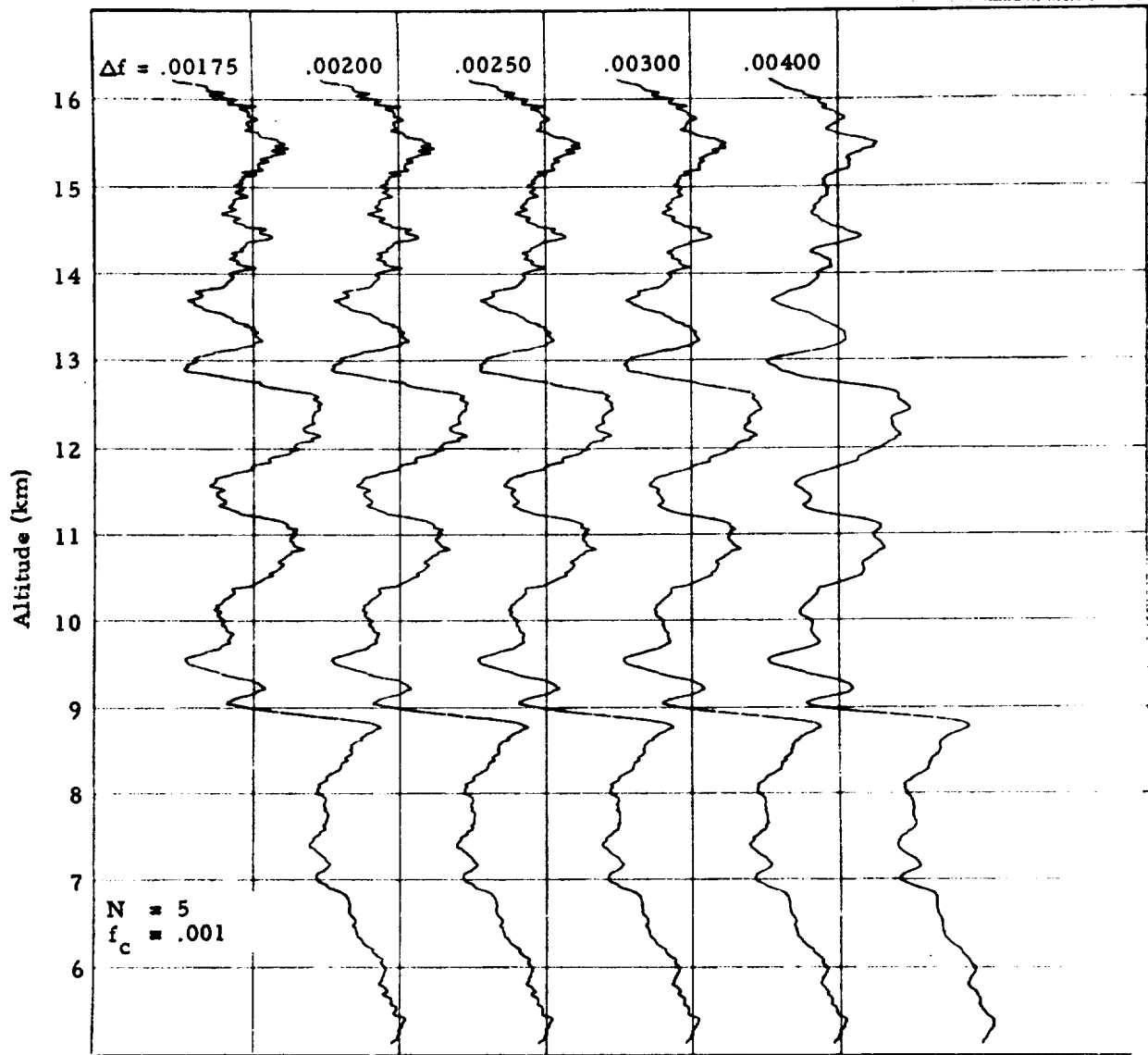
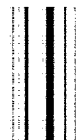
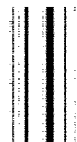


Fig. 13b - Effect of Varying Δf - Filtered Ascent Rate



Appendix A

MARTIN-GRAHAM FILTER SUBROUTINE



Appendix A

GFILTR: Numerical Smoothing Routine

Written By: D. Carlin, R. E. De Mandel and S. J. Krivo, Lockheed Missiles & Space Company, Huntsville Research & Engineering Center.

Purpose: To compute the numerical smoothing weights for a low-pass, high-pass, band-pass, or notch filter. Separate entry points, FLDATA and FRRESP, allow the user to apply the filter to any number of sets of data and to compute the filter response.

Method: The basic design is a low-pass Martin-Graham filter (Reference). The gain function, $G(f)$, is defined as:

$$G(f) = 1 \quad \text{when } f \leq f_c$$

$$G(f) = 1/2 \left[\cos \left(\frac{f - f_c}{f_t - f_c} \pi \right) + 1 \right] \quad f_c \leq f \leq f_t$$

$$G(f) = 0 \quad f \geq f_t$$

where:

f_c (the cutoff frequency) = the highest frequency whose amplitude is passed with unity gain.

f_t (termination frequency) = the lowest frequency whose amplitude is passed with zero gain.

Thus the gain function has unity gain below f_c , a cosine function in the rolloff interval between f_c and f_t , and zero gain above f_t . The gain function of this low-pass filter is illustrated in Figure A-1a. (Here, F1 and F2 represent f_c and f_t , respectively.)

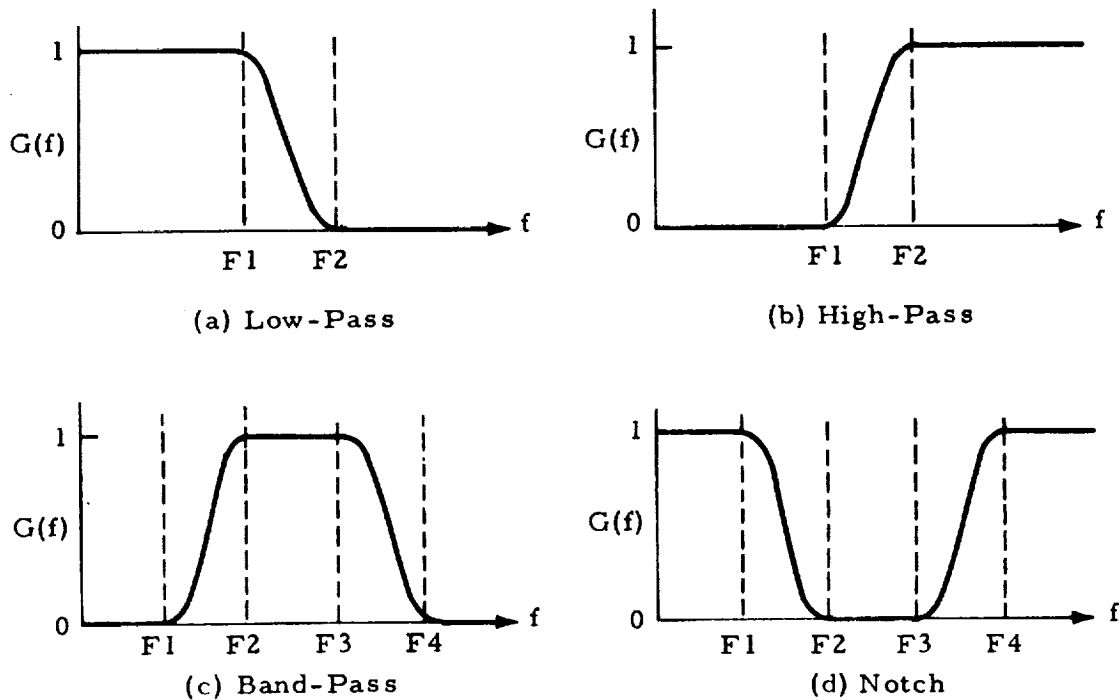


Figure A-1 - The Four Filter Types Which Can Be Generated With GFILTR

The above gain function can be converted, by an inverse Fourier transformation, to the weight function, $h(t)$, in the time (t) domain:

$$h(t) = \frac{\sin(2\pi f_t t) + \sin(2\pi f_c t)}{2\pi t \left[1 - 4t^2 (f_t - f_c)^2 \right]}$$

The discrete sample form of this weight function equation is

$$h_i = h(iT) = \frac{\sin(2\pi f_t i T) + \sin(2\pi f_c i T)}{2\pi i T [1 - 4i^2 T^2 (f_t - f_c)^2]}$$

where:

T = time interval between data samples

i = weight index (-N, -N+1, ..., -1, 0, 1, ..., N-1, N)

N = (n-1)/2

n = number of weights

The center weight (i = 0) is given by:

$$h_0 = f_c + f_t .$$

When the weights, h_i , have been determined, they are normalized by applying the constraint

$$\sum_{i=-N}^N h_i = 1 .$$

Only (N+1) weights need be calculated since $h_{-i} = h_i$. Since the filter function is even, no phase shift is produced.

The application of the filter to input data (X_j) to produce filtered data (Y_K) is given by:

$$Y_K = h_0 X_{N+K} + \sum_{i=1}^N h_i (X_{N+K-i} + X_{N+K+i})$$

where $K = 1, 2, \dots, NX - 2N$, and $NX =$ the number of input (data) points.

The filter response function is given by

$$\hat{G}(f) = h_0 + 2 \sum_{i=1}^N h_i \cos(2\pi f i T)$$

As the number of weights (n) is increased, the response of the filter improves [i.e., $\hat{G}(f)$ approaches $G(f)$]. However, computation time increases as does the number of points lost (the first and last N data points).

The basic low-pass filter is used to design the other filter types (see Figure A-1):

1. The weights for a high-pass filter are obtained by subtracting the weights of a low-pass filter from those of an all-pass filter (one in which all frequencies have unity gain). The weights of an all-pass filter are equal to zero except for the middle weight which is unity.
2. The weights of a band-pass filter are obtained by subtracting the corresponding weights of two low-pass filters.
3. Notch filter weights are obtained by subtracting the band-pass weights from the all-pass weights.

USAGE: The CALL statement for determination of the weights is:

```
CALL GFILTR (ITF, DELT, NP, W, F1, F2, F3, F4)
```

where:

ITF specifies the filter type to be generated. ITF may be assigned values from 1 to 4 as follows:

$$\text{ITF} = \begin{cases} 1 & \text{low-pass} \\ 2 & \text{high-pass} \\ 3 & \text{band-pass} \\ 4 & \text{notch} \end{cases}$$

DELTA is the time interval between successive data points.
 NP is the number of weights desired. NP must always be odd.

W is the weight array. W must be dimensioned by at least NP in the main program.

F1, F2, F3, F4 are the desired cutoff and termination frequencies, f_c and f_t . For a low-pass or high-pass filter, values are assigned to F1 and F2, and F3 and F4 are "dummy" arguments. For a band-pass or notch filter two values of f_c and f_t are required. After values are selected for the cutoff and termination frequencies, they must be assigned to F1, F2, F3, and F4 such that $F1 \leq F2 \leq F3 \leq F4$ (see Figure A-1).

The CALL statement used to apply the filter to a set of data is:

CALL FLDATA (NX, X, Y)

where:

NX is the number of data (input) points to be smoothed.

X is the input array of data points. X must be dimensioned by at least NX in the main program.

Y is the output array of filtered data. It must be dimensioned by at least NX-2N in the main program.

The CALL statement for the filter response is

CALL FRRESP (NF, FI, FS, F, R)

where:

- NF is the number of points (frequencies) for which response is to be computed.
- FI is the frequency interval between points.
- FS is the first (lowest) frequency at which response is to be computed.
- F is the output array of frequencies for which response is computed. F must be dimensioned by at least NF in the main program.
- R is the output array of response values. R must be dimensioned by at least NF in the main program.

RESTRICTION: The only restriction on the number of weights (NP) chosen is the amount of core storage available.

REFERENCE: Graham, Ronald J., "Determination and Analysis of Numerical Smoothing Weights," NASA TR R-179, George C. Marshall Space Flight Center, Huntsville, Alabama, December 1963.

SUBROUTINE LISTING
(FORTRAN IV)

```

SUBROUTINE GFILTR (ITF,DELT,NP,W,F1,F2,F3,F4)
DIMENSION W(NP)
DATA PI/3.14159265/
  NP1 = (NP + 1) / 2
  N = NP1 - 1
  DT2 = 2.0 * DELT
  PI2DT = PI * DT2
  KM = 0
  FC = F1
  FT = F2
10  FTMC = FT - FC
  WX = FT + FC
  SUM = WX
DO 20 K=1,N
  M = K + KM
  AA = DT2 * FLOAT(K)
  AM = AA * PI
  AC = AM * FC
  AT = AM * FT
  AD = (FTMC * AA)**2
  DM = 1.0 - AD
  IF (DM.LT.0.0001.AND.DM.GT.-0.0001) GO TO 15
  W(M) = (SIN(AT) + SIN(AC)) / (AM * DM)
  GO TO 20
15  W(M) = (FT*COS(AT) + FC*COS(AC)) / (1.0 - 3.0*AD)
20  SUM = SUM + 2.0*W(M)
  K1 = KM + 1
  K2 = KM + N
DO 22 M=K1,K2
22  W(M) = W(M) / SUM
  WX = WX / SUM
  IF (KM.GT.0) GO TO 25
  W(NP1) = WX
  IF (ITF.LT.2) GO TO 99
  IF (ITF.EQ.2) GO TO 30
  FC = F3
  FT = F4

```

```

      KM = NP1
      GO TO 10
25 DO 27 K=1,N
      M = K + NP1
27 W(K) = W(M) - W(K)
      W(NP1) = WX - W(NP1)
      IF (ITF.EQ.3) GO TO 99
30 W(NP1) = 1.0 - W(NP1)
      DO 32 K=1,N
32 W(K) = -W(K)
      GO TO 99
      ENTRY FLDATA (NX,X,Y)
      DIMENSION X(NX),Y(NX)
      KM = NX - N - N
      DO 42 K = 1,KM
      M = K + N
      SUM = X(M)*W(NP1)
      DO 40 J=1,N
      K1 = M - J
      K2 = M + J
40 SUM = SUM + W(J)*(X(K1) + X(K2))
42 Y(K) = SUM
      GO TO 99
      ENTRY FRRESP (NF,FI,FS,F,R)
      DIMENSION F(NF),R(NF)
      F(1) = FS
      DO 50 K=2,NF
50 F(K) = F(K-1) + FI
      DO 60 K=1,NF
      R(K) = W(NP1)
      WX = F(K) * PI2DT
      DO 60 J=1,N
60 R(K) = R(K) + 2.0 * W(J) * COS(FLOAT(J) * WX)
99 RETURN
      END

```

Appendix B

TABLES OF THE WAVELENGTHS
AT WHICH RESPONSE EQUALS 0.8 AND 0.2

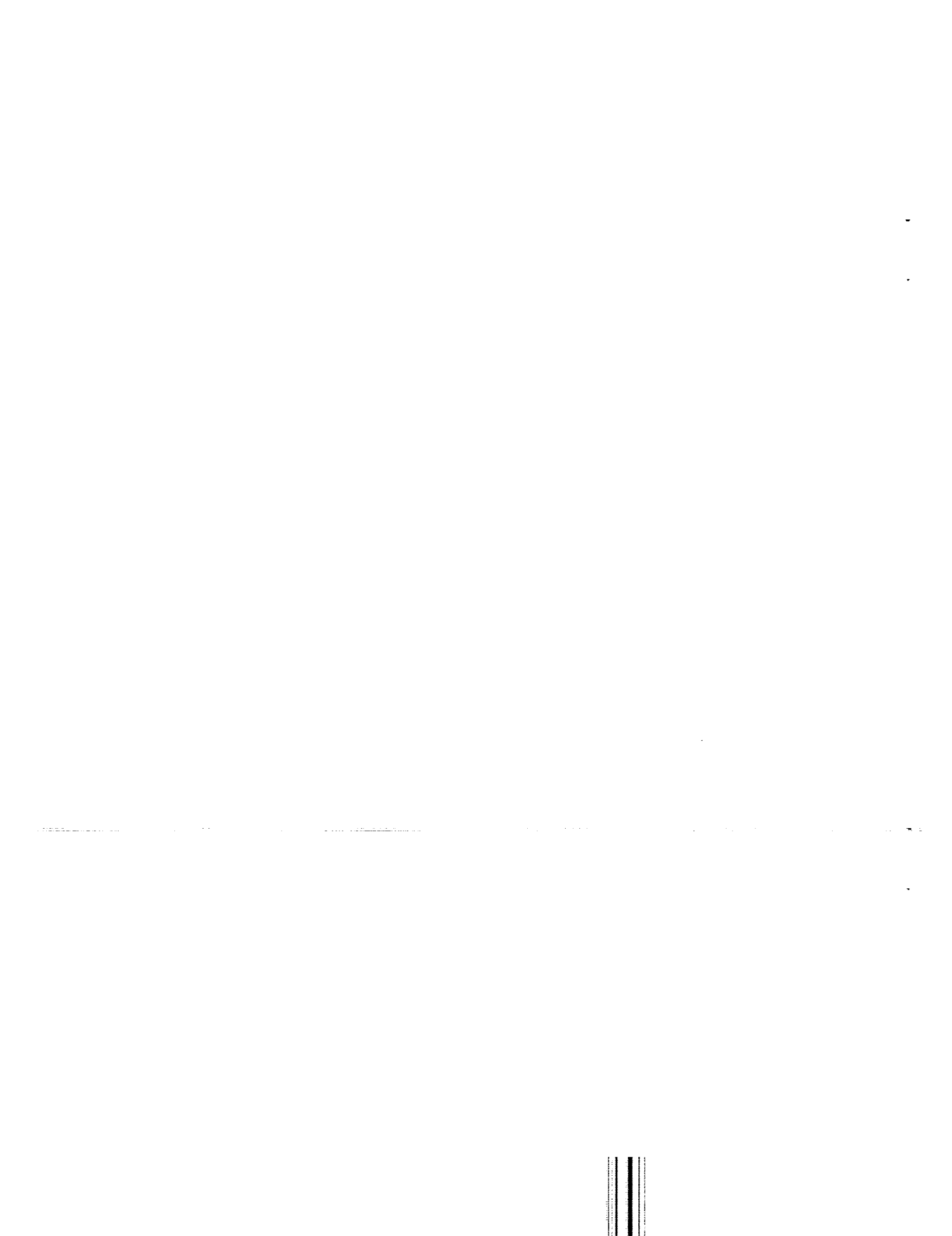


Table 1 - $\Delta f = 0.00030$

Response = 0.8

CUTOFF FREQ. (1/M)	WAVELENGTH	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	760.45	5	760.10	759.75	759.40	759.05	758.70	758.35
0.00030	1453.13	10	1449.27	1445.41	1441.55	1437.70	1433.84	1430.00
INF IN	2140.30	15	2129.17	2120.04	2109.91	2099.78	2089.65	2079.52
TERMIN WAVE. (M)	2822.39	20	2793.52	2784.03	2774.54	2765.05	2755.56	2746.07
TERMIN WAVE. (M)	3333.0	25	3308.41	3303.89	3299.37	3294.85	3290.33	3285.81
		30	4000.47	4020.61	3914.93	3814.67	3712.79	3612.65
		35	4797.66	4697.94	4582.04	4450.04	4319.93	4190.44
		40	5439.16	5209.54	5112.01	4940.18	4762.62	4597.66
		45	6056.93	5718.67	5563.33	5416.62	5271.66	5127.70
		50	6646.65	6194.33	5968.67	5416.62	4868.75	4377.67

Response = 0.2

CUTOFF FREQ. (1/M)	WAVELENGTH	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	332.03	5	331.76	331.49	331.22	330.95	330.68	330.41
0.00030	633.43	10	631.49	630.52	629.58	628.64	627.70	626.76
INF IN	922.23	15	925.91	922.78	919.67	916.57	913.47	910.37
TERMIN WAVE. (M)	1227.73	20	1212.26	1206.04	1189.40	1174.90	1160.14	1146.14
	1517.74	25	1483.78	1474.70	1465.16	1455.94	1446.77	1437.77
	1803.41	30	1753.24	1729.18	1704.40	1679.98	1655.77	1631.77
	2083.51	35	2001.71	1963.33	1923.53	1883.62	1843.77	1803.91
	2342.86	40	2230.63	2174.39	2124.02	2073.40	2022.77	1972.14
	2611.00	45	2436.28	2355.72	2277.60	2202.91	2127.62	2052.77
	2861.83	50	2619.34	2507.12	2427.60	2347.14	2265.67	2184.20

(Continued)

Table 1 - $\Delta f = 0.00030$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00057	0.00097	1750.	1148.	5	754.15	752.08	743.54	0.00100	0.00111	0.00125	0.00143	0.00167	0.00197	0.00233	0.00273
0.00067	0.00097	1500.	1034.	10	1406.96	1392.61	1375.03	0.00130	0.00141	0.00155	0.00173	0.00197	0.00227	0.00260	0.00297
1750.	1500.	1034.	769.	15	1924.74	1913.22	1894.17	1000.	900.	800.	700.	600.	500.	400.	300.
2435.26	2302.74	2302.74	2075.41	20	2435.26	2372.61	2325.03	769.	709.	645.	579.	508.	440.	376.	314.
2896.65	2740.11	2740.11	2404.11	25	2896.65	2804.11	2725.07	1000.	900.	800.	700.	600.	500.	400.	300.
3475.94	3120.94	3120.94	2725.07	30	3475.94	3344.24	3225.03	769.	709.	645.	579.	508.	440.	376.	314.
4149.12	3689.12	3689.12	3120.94	35	4149.12	3975.94	3811.11	1000.	900.	800.	700.	600.	500.	400.	300.
4924.34	4455.71	4455.71	3689.12	40	4924.34	4689.12	4475.94	769.	709.	645.	579.	508.	440.	376.	314.
5801.42	5315.46	5315.46	4455.71	45	5801.42	5542.42	5280.07	1000.	900.	800.	700.	600.	500.	400.	300.
6781.22	6173.02	6173.02	5315.46	50	6781.22	6424.24	6151.16	769.	709.	645.	579.	508.	440.	376.	314.

Response = 0.2

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00357	0.00697	1750.	1148.	5	328.57	327.52	322.87	0.00400	0.00411	0.00425	0.00443	0.00467	0.00497	0.00533	0.00573
0.00367	0.00697	1500.	1034.	10	608.24	606.70	599.67	0.00530	0.00541	0.00555	0.00573	0.00597	0.00627	0.00660	0.00697
1750.	1500.	1034.	769.	15	898.25	892.46	882.88	1000.	900.	800.	700.	600.	500.	400.	300.
1223.68	956.73	956.73	706.46	20	1223.68	1172.92	1125.03	769.	709.	645.	579.	508.	440.	376.	314.
1708.90	1306.10	1306.10	968.10	25	1708.90	1625.94	1544.24	1000.	900.	800.	700.	600.	500.	400.	300.
2108.90	1625.94	1625.94	1223.68	30	2108.90	1992.42	1894.17	769.	709.	645.	579.	508.	440.	376.	314.
2549.17	1992.42	1992.42	1544.24	35	2549.17	2389.17	2275.94	1000.	900.	800.	700.	600.	500.	400.	300.
3049.17	2389.17	2389.17	1992.42	40	3049.17	2824.34	2689.12	769.	709.	645.	579.	508.	440.	376.	314.
3601.42	2824.34	2824.34	2389.17	45	3601.42	3301.42	3135.46	1000.	900.	800.	700.	600.	500.	400.	300.
4201.42	3301.42	3301.42	2824.34	50	4201.42	3821.42	3615.46	769.	709.	645.	579.	508.	440.	376.	314.

(Continued)

Table 1 - $\Delta f = 0.00030$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00200	0.00230	500.	435.	5	677.80	659.45	640.42	621.03	601.50	582.57
0.00230	0.00260	500.	435.	10	489.71	539.04	328.70	275.01	221.03	167.36
0.00260	0.00290	500.	435.	15	545.50	431.21	328.93	274.42	219.14	159.63
0.00290	0.00320	500.	435.	20	531.17	430.20	313.12	259.14	208.22	157.29
0.00320	0.00350	500.	435.	25	531.00	421.45	308.40	258.28	204.02	152.39
0.00350	0.00380	500.	435.	30	526.39	404.40	307.48	253.41	201.86	151.30
0.00380	0.00410	500.	435.	35	501.88	404.10	302.15	252.59	201.94	150.42
0.00410	0.00440	500.	435.	40	500.81	403.50	302.48	250.50	200.35	150.11
0.00440	0.00470	500.	435.	45	502.04	397.62	298.73	249.78	199.55	149.87
0.00470	0.00500	500.	435.	50	496.41	397.43	298.73	249.75	199.53	149.70

Response = 0.2

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00200	0.00230	500.	435.	5	297.84	278.00	262.74	245.91	227.30	209.48
0.00230	0.00260	500.	435.	10	372.83	303.49	270.30	245.91	219.23	192.86
0.00260	0.00290	500.	435.	15	391.07	324.53	258.52	231.23	207.30	184.48
0.00290	0.00320	500.	435.	20	400.14	340.14	263.22	233.08	207.30	184.48
0.00320	0.00350	500.	435.	25	418.83	343.66	266.97	226.97	200.35	184.48
0.00350	0.00380	500.	435.	30	422.76	348.93	270.39	228.61	200.35	184.48
0.00380	0.00410	500.	435.	35	429.18	353.90	272.27	230.65	200.35	184.48
0.00410	0.00440	500.	435.	40	430.99	355.29	274.69	231.72	200.35	184.48
0.00440	0.00470	500.	435.	45	437.31	357.81	275.66	232.74	200.35	184.48
0.00470	0.00500	500.	435.	50	437.78	358.89	276.92	233.47	200.35	184.48

Table 2 - $\Delta f = 0.00050$

Response = 0.8

CUTOFF FREQ. (1/M)	WAVELENGTH	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	759.75	5	759.75	0.00010	750.69	0.00020	757.29	0.00025	756.24
0.00050	1497.99	10	1491.92	0.00060	1435.30	0.00070	1430.29	0.00075	1421.61
INFIN	2123.66	15	2104.56	0.00080	2094.98	5000.	2084.78	1000.	2036.54
2000.	2779.30	20	2737.51	0.00100	2719.34	1429.	2679.31	1333.	2570.04
	3409.78	25	3326.70		3293.27		3209.90		2992.51
	4010.77	30	3868.71		3805.81		3735.69		3254.02
	4570.15	35	4339.07		4239.07		4131.25		3570.77
	5096.11	40	4728.93		4570.15		4450.53		3850.53
	5603.33	45	5033.98		4811.75		4639.07		3727.09
	5688.67	50	5292.88		4912.74		4724.03		3727.09

Response = 0.2

CUTOFF FREQ. (1/M)	WAVELENGTH	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	3314.50	5	3314.50	0.00010	3314.50	0.00020	3300.02	0.00025	3300.02
0.00050	6302.28	10	6274.38	0.00060	6266.18	0.00070	6233.32	0.00075	6200.94
INFIN	9224.26	15	9124.53	0.00080	9084.94	5000.	8994.48	1000.	8766.38
2000.	12042.26	20	11811.88	0.00100	11724.39	1429.	11501.14	1333.	1094.09
	14723.72	25	14294.04		14045.59		1367.04		1328.25
	17255.54	30	16474.96		1614.96		1537.98		1470.68
	19588.64	35	18334.89		1779.90		1655.79		1547.85
	21688.63	40	19774.55		1897.39		1714.70		1645.60
	23489.96	45	20804.51		1968.05		1725.54		1546.81
	25034.28	50	21374.51		1994.40		1716.50		1537.72

(Continued)

Table 2 - $\Delta f = 0.00050$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00047	0.00030	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00107	0.00117	0.00130	0.00150	0.00161	0.00175	0.00193	0.00217
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	933.	857.	769.	687.	621.	571.	519.	462.
N	5	10	15	20	25	30	35	40
WAVELENGTH	751.073	1389.104	1924.113	2283.446	2372.777	2093.800	1657.444	1474.104
WAVELENGTH	751.073	1372.777	1296.772	1240.119	1269.689	1217.689	1146.994	1030.774
WAVELENGTH	746.225	1345.771	1269.689	1217.689	1146.994	1030.774	944.055	875.211
WAVELENGTH	1744.257	1573.112	1439.009	1329.133	1252.462	1217.689	1146.994	1030.774
WAVELENGTH	1850.225	1729.133	1629.133	1574.337	1524.462	1474.337	1424.337	1374.337
WAVELENGTH	1574.337	1474.337	1424.337	1374.337	1324.337	1274.337	1224.337	1174.337
WAVELENGTH	1108.990	1030.774	970.822	923.822	876.822	829.822	782.822	735.822
WAVELENGTH	1108.990	1030.774	970.822	923.822	876.822	829.822	782.822	735.822
WAVELENGTH	1102.119	1024.87	947.613	872.347	797.081	721.815	646.549	571.283
WAVELENGTH	1102.119	1024.87	947.613	872.347	797.081	721.815	646.549	571.283
WAVELENGTH	1100.77	923.822	825.60	727.38	629.16	530.94	432.72	334.50

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00047	0.00030	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00107	0.00117	0.00130	0.00150	0.00161	0.00175	0.00193	0.00217
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	933.	857.	769.	687.	621.	571.	519.	462.
N	5	10	15	20	25	30	35	40
WAVELENGTH	327.32	599.14	816.55	948.78	972.04	960.78	1011.05	1027.53
WAVELENGTH	327.32	599.14	816.55	948.78	972.04	960.78	1011.05	1027.53
WAVELENGTH	326.15	590.31	785.01	871.72	864.36	872.65	903.45	923.02
WAVELENGTH	326.15	590.31	785.01	871.72	864.36	872.65	903.45	923.02
WAVELENGTH	324.28	575.99	734.54	782.58	757.99	767.88	809.29	811.29
WAVELENGTH	324.28	575.99	734.54	782.58	757.99	767.88	809.29	811.29
WAVELENGTH	321.03	549.09	644.15	635.16	620.49	628.34	684.63	702.12
WAVELENGTH	321.03	549.09	644.15	635.16	620.49	628.34	684.63	702.12
WAVELENGTH	318.91	532.90	591.16	569.68	570.97	573.77	629.56	657.84
WAVELENGTH	318.91	532.90	591.16	569.68	570.97	573.77	629.56	657.84
WAVELENGTH	315.94	508.90	531.34	547.69	540.37	543.95	609.54	637.82
WAVELENGTH	315.94	508.90	531.34	547.69	540.37	543.95	609.54	637.82
WAVELENGTH	311.75	473.73	474.18	503.27	510.69	516.69	599.21	629.13
WAVELENGTH	311.75	473.73	474.18	503.27	510.69	516.69	599.21	629.13
WAVELENGTH	305.19	421.76	426.28	447.59	456.19	464.79	559.75	599.54
WAVELENGTH	305.19	421.76	426.28	447.59	456.19	464.79	559.75	599.54
WAVELENGTH	300.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
WAVELENGTH	300.00	400.00	400.00	400.00	400.00	400.00	400.00	400.00
WAVELENGTH	287.38	371.16	371.16	371.16	371.16	371.16	446.04	486.97
WAVELENGTH	287.38	371.16	371.16	371.16	371.16	371.16	446.04	486.97
WAVELENGTH	285.60	363.72	363.72	363.72	363.72	363.72	446.04	486.97
WAVELENGTH	285.60	363.72	363.72	363.72	363.72	363.72	446.04	486.97

(Continued)

Table 2 - $\Delta f = 0.00050$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00350	0.00400	0.00450	0.00500	0.00550	0.00600	0.00650	0.00700	0.00750	0.00800	0.00850	0.00900	0.00950	0.01000
TERMIN WAVL. (M)	500.	400.	300.	261.	222.	182.	142.	102.	62.	22.	18.	14.	10.	6.	2.	18.	14.
TERMIN WAVL. (M)	400.	300.	261.	222.	182.	142.	102.	62.	22.	18.	14.	10.	6.	2.	18.	14.	10.
N	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
WAVELENGTH	600.00	820.23	514.82	507.98	510.80	494.97	480.94	480.12	481.39	472.77	450.29	438.42	426.72	415.30	404.14	393.24	382.58
WAVELENGTH	450.00	608.92	414.10	416.84	400.54	392.67	393.14	386.83	384.56	384.03	363.79	353.79	343.72	333.99	324.52	315.31	306.34
WAVELENGTH	300.00	408.42	268.44	265.82	253.13	251.00	247.74	246.10	243.86	243.57	233.57	223.57	213.57	203.57	193.57	183.57	173.57
WAVELENGTH	150.00	204.21	137.71	135.41	125.41	123.21	121.00	119.78	118.56	118.04	108.04	98.04	88.04	78.04	68.04	58.04	48.04
WAVELENGTH	75.00	102.11	68.86	67.71	62.71	61.50	60.28	59.06	58.04	57.52	47.52	37.52	27.52	17.52	7.52	2.52	2.52

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00350	0.00400	0.00450	0.00500	0.00550	0.00600	0.00650	0.00700	0.00750	0.00800	0.00850	0.00900	0.00950	0.01000
TERMIN WAVL. (M)	500.	400.	300.	261.	222.	182.	142.	102.	62.	22.	18.	14.	10.	6.	2.	18.	14.
TERMIN WAVL. (M)	400.	300.	261.	222.	182.	142.	102.	62.	22.	18.	14.	10.	6.	2.	18.	14.	10.
N	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85
WAVELENGTH	600.00	820.23	514.82	507.98	510.80	494.97	480.94	480.12	481.39	472.77	450.29	438.42	426.72	415.30	404.14	393.24	382.58
WAVELENGTH	450.00	608.92	414.10	416.84	400.54	392.67	393.14	386.83	384.56	384.03	363.79	353.79	343.72	333.99	324.52	315.31	306.34
WAVELENGTH	300.00	408.42	268.44	265.82	253.13	251.00	247.74	246.10	243.86	243.57	233.57	223.57	213.57	203.57	193.57	183.57	173.57
WAVELENGTH	150.00	204.21	137.71	135.41	125.41	123.21	121.00	119.78	118.56	118.04	108.04	98.04	88.04	78.04	68.04	58.04	48.04
WAVELENGTH	75.00	102.11	68.86	67.71	62.71	61.50	60.28	59.06	58.04	57.52	47.52	37.52	27.52	17.52	7.52	2.52	2.52

Table 3 - $\Delta f = 0.00075$

Response = 0.8

CUTOFF FREQ. (1/K)	0.00000	0.00010	0.00020	0.00030	0.00040	0.00050	0.00060	0.00070	0.00080	0.00090	0.00100	0.00110	0.00120	0.00130	0.00140	0.00150	0.00160	0.00170	0.00180	0.00190	0.00200		
TERMIN FREQ. (1/K)	0.00075	0.00085	0.00095	0.00105	0.00115	0.00125	0.00135	0.00145	0.00155	0.00165	0.00175	0.00185	0.00195	0.00205	0.00215	0.00225	0.00235	0.00245	0.00255	0.00265	0.00275		
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	3000.	2500.	2000.	1500.	1000.	800.	600.	400.	300.	250.	200.	150.	100.	80.	60.	40.	30.	20.	
TERMIN WAVL. (M)	1333.	1176.	1033.	923.	833.	750.	675.	600.	533.	475.	425.	380.	340.	300.	270.	240.	210.	180.	160.	140.	120.	100.	
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	757.99	756.99	756.59	756.59	755.55	754.85	753.46	752.08	750.01	748.00	746.00	744.00	742.00	740.00	738.00	736.00	734.00	732.00	730.00	728.00	726.00	724.00	722.00
10	1436.58	1429.04	1425.02	1419.14	1413.02	1402.14	1392.61	1382.61	1376.23	1369.98	1363.79	1357.62	1351.48	1345.36	1339.26	1333.18	1327.12	1321.08	1315.06	1309.06	1303.08	1297.12	1291.18
15	2085.81	2059.59	2048.84	2026.47	2004.61	1970.41	1937.79	1906.62	1876.00	1845.98	1816.52	1787.62	1759.28	1731.50	1704.26	1677.56	1651.38	1625.72	1600.58	1575.96	1551.86	1528.28	1505.22
20	2692.52	2631.97	2606.84	2550.04	2503.28	2411.18	2325.62	2246.08	2172.50	2104.86	2042.16	1984.40	1930.58	1880.72	1833.82	1790.84	1750.78	1713.54	1679.02	1647.22	1618.16	1591.74	1567.94
25	3241.15	3117.79	3071.04	2960.07	2861.83	2679.51	2508.06	2356.46	2214.72	2081.84	1956.72	1838.36	1725.74	1617.86	1514.72	1416.22	1322.36	1233.04	1148.34	1068.26	992.72	921.74	855.22
30	3719.91	3508.60	3412.79	3280.06	2987.06	2429.06	1979.94	1588.31	1248.00	948.00	688.00	458.00	258.00	88.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	4121.76	3872.87	3661.23	3159.88	2742.09	2077.87	1709.34	1403.34	1150.40	937.92	768.00	632.00	528.00	452.00	392.00	344.00	300.00	260.00	224.00	192.00	164.00	140.00	118.00
40	4470.23	3977.87	3659.60	3550.16	2897.26	2425.46	1871.39	1418.17	1100.24	870.00	700.00	580.00	480.00	400.00	330.00	270.00	220.00	180.00	140.00	110.00	90.00	70.00	50.00
45	4608.72	3719.91	3347.09	2627.15	2218.55	1801.43	1400.78	1091.42	820.00	620.00	500.00	400.00	320.00	260.00	210.00	170.00	130.00	100.00	80.00	60.00	40.00	30.00	20.00
50	4701.29	3347.09	2627.15	2218.55	1801.43	1400.78	1091.42	820.00	620.00	500.00	400.00	320.00	260.00	210.00	170.00	130.00	100.00	80.00	60.00	40.00	30.00	20.00	10.00

Response = 0.2

CUTOFF FREQ. (1/K)	0.00000	0.00010	0.00020	0.00030	0.00040	0.00050	0.00060	0.00070	0.00080	0.00090	0.00100	0.00110	0.00120	0.00130	0.00140	0.00150	0.00160	0.00170	0.00180	0.00190	0.00200		
TERMIN FREQ. (1/K)	0.00075	0.00085	0.00095	0.00105	0.00115	0.00125	0.00135	0.00145	0.00155	0.00165	0.00175	0.00185	0.00195	0.00205	0.00215	0.00225	0.00235	0.00245	0.00255	0.00265	0.00275		
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	3000.	2500.	2000.	1500.	1000.	800.	600.	400.	300.	250.	200.	150.	100.	80.	60.	40.	30.	20.	
TERMIN WAVL. (M)	1333.	1176.	1033.	923.	833.	750.	675.	600.	533.	475.	425.	380.	340.	300.	270.	240.	210.	180.	160.	140.	120.	100.	
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	
5	330.74	330.74	329.49	329.49	329.49	329.49	328.24	327.52	326.81	326.10	325.39	324.68	323.97	323.26	322.55	321.84	321.13	320.42	319.71	319.00	318.29	317.58	316.87
10	624.27	624.27	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38	618.38
15	902.45	899.74	883.47	871.26	863.73	843.28	823.52	804.57	786.32	768.77	751.92	735.77	720.32	705.57	691.42	677.87	664.92	652.57	640.82	629.67	619.02	608.87	600.00
20	1158.29	1158.29	1125.64	1111.97	1082.52	1058.06	1010.92	966.87	925.92	888.07	853.22	820.37	789.52	760.67	733.82	708.97	686.12	665.27	646.42	629.57	614.72	601.87	590.00
25	1334.07	1334.07	1310.63	1282.62	1254.20	1220.36	1181.00	1137.15	1093.80	1050.95	1008.60	966.75	925.40	884.55	844.20	804.35	765.00	726.15	687.80	650.95	615.60	581.75	549.00
30	1571.61	1571.61	1548.30	1513.02	1476.74	1438.46	1397.18	1352.90	1309.62	1267.34	1226.06	1185.78	1146.50	1108.22	1070.94	1034.66	999.38	965.10	931.82	899.54	868.26	838.98	810.70
35	1716.50	1716.50	1688.30	1658.08	1625.86	1591.64	1555.42	1517.20	1477.98	1436.76	1393.54	1349.32	1304.10	1257.88	1214.66	1173.44	1133.22	1094.00	1055.78	1018.56	983.34	949.12	915.90
40	1813.39	1813.39	1780.30	1745.08	1707.86	1668.64	1627.42	1584.20	1539.98	1494.76	1448.54	1401.32	1353.10	1303.88	1252.66	1200.44	1148.22	1096.00	1044.78	994.56	945.34	897.12	850.90
45	1865.00	1865.00	1828.30	1789.08	1747.86	1704.64	1659.42	1613.20	1566.98	1519.76	1471.54	1422.32	1372.10	1320.88	1268.66	1215.44	1162.22	1109.00	1055.78	1002.56	950.34	899.12	849.90
50	1882.14	1882.14	1842.30	1800.08	1755.86	1709.64	1661.42	1611.20	1559.98	1507.76	1454.54	1400.32	1345.10	1288.88	1231.66	1173.44	1114.22	1054.00	992.78	930.56	868.34	807.12	747.90

(Continued)

Table 3 - $\Delta f = 0.00075$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00147		
TERMIN FREQ. (1/M)	0.00132	0.00142	0.00155	0.00175	0.00184	0.00200	0.00218	0.00242		
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	400.		
TERMIN WAVL. (M)	757.	706.	645.	571.	537.	500.	457.	414.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	748.30	745.91	741.84	735.20	730.91	724.80	716.24	702.72	696.73	688.07
WAVELENGTH	1263.63	1244.40	1213.35	1255.96	1219.50	1166.54	1086.11	1036.99	998.07	965.04
WAVELENGTH	833.49	820.77	802.51	784.96	769.83	754.21	739.14	724.56	710.37	696.88
WAVELENGTH	607.39	593.36	579.36	565.38	551.41	537.44	523.47	509.50	495.53	481.56
WAVELENGTH	488.78	471.39	454.01	436.64	419.27	401.90	384.53	367.16	349.79	332.42
WAVELENGTH	350.98	334.74	318.50	302.26	286.02	269.78	253.54	237.30	221.06	204.82
WAVELENGTH	272.54	257.53	242.52	227.51	212.50	197.49	182.48	167.47	152.46	137.45
WAVELENGTH	182.54	172.53	162.52	152.51	142.50	132.49	122.48	112.47	102.46	92.45
WAVELENGTH	126.54	118.17	110.80	103.43	96.06	88.69	81.32	73.95	66.58	59.21

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00147		
TERMIN FREQ. (1/M)	0.00132	0.00142	0.00155	0.00175	0.00184	0.00200	0.00218	0.00242		
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.		
TERMIN WAVL. (M)	757.	706.	645.	571.	537.	500.	457.	414.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	325.50	324.15	322.80	318.24	315.94	312.74	308.11	301.04	293.52	285.52
WAVELENGTH	585.25	574.98	564.71	548.60	539.53	529.46	518.39	506.32	494.25	482.18
WAVELENGTH	408.64	397.25	385.86	374.47	363.08	351.69	340.30	328.91	317.52	306.13
WAVELENGTH	317.91	307.97	297.03	287.09	277.15	267.21	257.27	247.33	237.39	227.45
WAVELENGTH	226.52	217.99	209.46	199.93	191.40	182.87	174.34	165.81	157.28	148.75
WAVELENGTH	163.95	156.24	148.53	140.82	133.11	125.40	117.69	109.98	102.27	94.56
WAVELENGTH	107.79	102.52	97.25	92.00	86.75	81.50	76.25	71.00	65.75	60.50
WAVELENGTH	80.97	77.47	73.97	70.47	66.97	63.47	59.97	56.47	52.97	49.47
WAVELENGTH	62.54	60.17	57.80	55.43	53.06	50.69	48.32	45.95	43.58	41.21

(Continued)

Table 3 - $\Delta f = 0.00075$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00275	0.00325	0.00408	0.00475	0.00575	0.00742	0.00875	0.01075
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M)	364.	308.	245.	211.	174.	135.	114.	93.
N								
WAVELENGTH	880.84	637.88	534.99	416.52	240.68	182.11	135.94	110.56
5	728.89	491.20	306.75	260.66	213.13	153.47	128.30	102.51
10	485.52	378.59	309.86	255.30	208.55	151.14	125.55	100.24
15	481.39	400.93	291.92	246.25	197.81	149.55	124.18	99.49
20	480.39	375.83	281.30	242.85	186.34	148.01	123.37	99.08
30	481.15	377.03	266.51	241.46	174.18	146.91	122.85	98.51
35	480.00	377.84	285.46	239.30	173.38	146.27	122.48	98.33
40	480.74	370.72	284.07	239.17	172.99	145.89	122.22	98.21
45	485.93	370.39	283.00	237.88	172.27	145.59	122.02	98.03
50	481.86	370.13	282.65	237.86	171.97	145.41	121.87	97.96

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00275	0.00325	0.00408	0.00475	0.00575	0.00742	0.00875	0.01075
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M)	364.	308.	245.	211.	174.	135.	114.	93.
N								
WAVELENGTH	289.14	246.82	218.50	181.73	151.46	122.38	102.94	88.07
5	334.33	284.87	241.89	197.48	168.90	130.82	110.79	90.84
10	359.42	299.01	244.74	207.93	171.86	133.83	113.57	92.59
15	367.23	315.35	243.30	212.38	175.30	135.72	114.96	93.50
20	380.71	318.35	252.16	215.31	177.56	136.94	115.76	93.94
25	383.75	320.91	253.88	217.31	178.17	137.58	116.24	94.30
30	384.01	324.85	255.50	218.35	179.15	137.94	116.58	94.48
35	391.07	324.54	256.54	219.32	179.84	138.24	116.80	94.68
40	391.32	327.71	257.31	219.73	180.07	138.54	116.95	94.78
45	393.23	328.43	258.30	220.20	180.53	138.72	117.07	94.85
50								

Table 4 - $\Delta f = 0.00100$

Response = 0.8

CUTOFF FREQ. (1/K)	0.00000	0.00010	0.00020	0.00030	0.00040	0.00050
TERMIN FREQ. (1/K)	0.00100	0.00110	0.00120	0.00130	0.00140	0.00150
CUTOFF WAVL. (M)	INF IN	10000.	5000.	3000.	2500.	2000.
TERMIN WAVL. (M)	1000.	909.	833.	750.	714.	667.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	755.89	754.15	752.77	750.35	748.64	746.25
10	1420.37	1410.59	1398.55	1391.42	1367.54	1347.82
15	2034.02	1999.27	1958.64	1933.22	1888.65	1777.97
20	2570.04	2488.04	2454.53	2383.13	2209.58	1921.88
25	3003.90	2841.94	2774.60	2627.75	2503.28	1693.44
30	3319.96	3025.67	2912.71	2653.28	2439.97	1734.47
35	3489.67	3036.89	2861.83	2484.31	2188.91	1998.94
40	3534.84	2912.71	2689.11	2242.85	1953.97	1490.29
45	3489.67	2746.69	2507.12	2085.81	1848.17	1428.08
50	3409.78	2623.54	2397.07	2026.47	1821.46	1425.32

Response = 0.2

CUTOFF FREQ. (1/K)	0.00000	0.00010	0.00020	0.00030	0.00040	0.00050
TERMIN FREQ. (1/K)	0.00100	0.00110	0.00120	0.00130	0.00140	0.00150
CUTOFF WAVL. (M)	INF IN	10000.	5000.	3000.	2500.	2000.
TERMIN WAVL. (M)	1000.	909.	833.	750.	714.	667.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	329.56	328.76	327.91	326.97	325.63	324.28
10	615.62	610.32	603.57	599.82	586.92	576.60
15	874.98	856.48	844.00	821.44	776.31	740.52
20	1093.36	1049.25	1032.71	995.08	907.95	782.99
25	1258.86	1173.22	1140.55	1070.50	921.23	777.05
30	1361.36	1223.14	1174.06	1078.25	921.23	790.64
35	1405.75	1226.01	1171.54	1078.12	939.72	817.36
40	1413.02	1226.01	1175.74	1096.15	957.29	820.23
45	1413.02	1236.06	1188.54	1105.16	942.35	823.11
50	1416.69	1246.41	1198.98	1111.16	942.92	829.78

(Continued)

Table 4 - $\Delta f = 0.00100$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00047	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00157	0.00167	0.00180	0.00200	0.00211	0.00225	0.00243	0.00267
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	636.	600.	556.	500.	474.	444.	412.	375.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	744.22	741.53	736.86	729.31	724.97	718.12	708.80	694.38
10	1322.57	1310.20	1273.53	1209.60	1167.37	1108.15	1018.57	875.45
15	1721.91	1635.95	1476.94	1288.87	1073.30	867.91	677.72	548.60
20	1772.20	1549.31	1217.69	858.98	755.20	673.62	604.69	535.34
25	1441.62	1173.22	952.84	789.78	731.27	669.14	601.36	534.29
30	1194.35	1051.94	922.78	788.64	727.69	664.15	604.91	529.80
35	1151.76	1042.57	922.24	785.24	729.64	666.87	592.64	517.25
40	1151.98	1041.91	918.44	788.26	725.76	652.62	560.27	511.74
45	1150.16	1039.26	920.71	778.89	711.27	645.67	560.27	511.60
50	1147.74	1036.92	917.61	769.74	708.50	645.93	560.07	509.85

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00157	0.00167	0.00180	0.00200	0.00211	0.00225	0.00243	0.00267
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	636.	600.	556.	500.	474.	444.	412.	375.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	323.75	321.73	319.35	315.23	312.70	309.16	304.11	296.41
10	569.59	554.62	537.80	504.51	483.52	455.05	416.31	367.48
15	712.19	671.61	610.77	526.22	489.59	454.54	421.13	386.19
20	730.61	670.24	606.48	542.43	514.33	481.53	440.73	394.18
25	733.22	664.53	633.20	561.58	524.54	485.67	449.18	410.88
30	758.34	709.11	643.65	585.06	533.94	501.92	461.59	413.06
35	770.11	712.19	647.97	579.66	546.22	506.07	462.89	417.59
40	771.19	718.44	660.25	584.90	546.95	508.58	466.32	418.07
45	778.89	728.02	644.53	585.25	550.08	510.48	467.38	421.56
50	784.86	730.94	645.07	587.35	550.82	511.60	469.39	421.89

(Continued)

Table 4 - $\Delta f = 0.00100$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00300	0.00350	0.00433	0.00500	0.00600	0.00767	0.00900	0.01100
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M)	333.	286.	231.	200.	167.	130.	111.	91.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	670.24	624.51	514.98	391.07	220.65	159.45	133.81	109.49
10	639.63	407.31	299.33	253.37	208.99	150.61	124.43	100.99
15	462.37	382.50	300.87	255.77	196.27	148.06	123.89	99.16
20	459.26	385.01	283.04	240.08	192.95	146.78	122.87	98.46
25	461.20	369.29	283.29	236.13	192.95	145.67	121.82	97.93
30	440.49	363.40	278.00	235.83	190.39	144.77	121.34	97.53
35	439.66	362.44	277.66	233.77	189.51	144.18	121.00	97.37
40	439.90	358.47	274.38	233.77	189.51	143.88	120.77	97.27
45	435.69	358.39	275.89	232.91	188.96	143.70	120.62	97.16
50	435.22	357.61	275.93	232.81	188.74	143.60	120.54	97.12

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00300	0.00350	0.00433	0.00500	0.00600	0.00767	0.00900	0.01100
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M)	333.	286.	231.	200.	167.	130.	111.	91.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	283.73	260.00	210.63	176.33	148.70	120.16	101.71	87.10
10	317.94	275.52	223.84	192.86	165.29	128.70	109.35	89.82
15	341.65	287.67	236.57	202.43	167.84	131.57	112.01	91.39
20	352.38	300.98	239.83	206.91	171.34	133.17	113.27	92.36
25	359.42	304.85	243.61	209.15	173.09	134.23	113.93	92.70
30	363.89	307.65	245.72	210.79	173.75	134.89	114.31	93.01
35	365.76	309.45	246.39	211.37	174.55	135.24	114.56	93.21
40	368.39	310.69	246.99	212.05	174.94	135.44	114.72	93.31
45	369.38	311.93	247.51	212.32	175.18	135.58	114.83	93.39
50	369.72	312.17	247.74	212.60	175.33	135.68	114.90	93.43

Table 5 - $\Delta f = 0.00125$

Response = 0.8

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00125	0.00135	0.00136	0.00145	0.00150	0.00158	0.00165	0.00175
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	800.	741.	723.	690.	667.	632.	606.	571.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	753.11	751.39	750.70	749.33	748.30	746.25	744.56	741.53
10	1399.74	1387.89	1383.20	1372.77	1363.63	1349.03	1335.83	1313.35
15	1965.69	1924.13	1908.22	1871.39	1841.93	1787.67	1740.20	1657.46
20	2419.74	2305.98	2267.68	2180.17	2104.56	1948.05	1846.08	1637.58
25	2701.40	2495.64	2414.74	2242.85	2099.17	1839.87	1621.38	1318.63
30	2822.39	2484.31	2358.72	2088.46	1867.10	1567.10	1367.04	1159.11
35	2803.08	2345.40	2188.91	1888.47	1688.94	1436.56	1292.62	1138.96
40	2723.86	2218.55	2057.59	1785.72	1621.38	1411.81	1286.53	1140.55
45	2666.23	2145.76	2016.49	1745.57	1611.81	1413.02	1288.54	1139.76
50	2666.23	2142.90	2016.49	1742.67	1611.81	1413.02	1288.56	1139.76

Response = 0.2

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00125	0.00135	0.00136	0.00145	0.00150	0.00158	0.00165	0.00175
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	800.	741.	723.	690.	667.	632.	606.	571.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	328.04	327.06	326.73	326.02	325.43	324.34	323.30	321.85
10	604.91	597.85	595.46	589.89	585.44	577.21	570.18	558.32
15	838.70	815.73	806.89	788.24	773.01	745.24	720.65	680.54
20	1009.80	955.06	934.89	891.65	857.13	797.86	750.35	685.95
25	1103.47	1006.70	973.21	907.45	840.73	793.61	749.67	696.75
30	1124.54	1007.94	971.48	906.95	846.19	808.49	769.38	716.55
35	1124.54	1011.67	979.03	920.71	882.05	823.52	790.00	720.33
40	1123.45	1021.76	987.67	930.12	889.23	826.01	780.75	722.86
45	1138.17	1026.24	993.27	931.70	889.71	826.43	782.61	725.86
50	1138.17	1026.24	993.27	931.70	889.72	826.43	782.61	726.08

(Continued)

Table 5 - $\Delta f = 0.00125$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00182	0.00192	0.00205	0.00225	0.00234	0.00250	0.00268	0.00292
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	549.	522.	498.	444.	424.	400.	373.	343.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	739.52	736.19	731.27	722.88	717.81	710.45	700.32	689.81
10	1295.69	1269.59	1226.65	1155.84	1108.90	1042.57	943.51	788.69
15	1591.45	1492.85	1333.66	1093.97	896.04	733.89	604.91	514.17
20	1974.09	1251.14	764.32	760.10	692.04	631.73	572.97	508.58
25	1150.97	995.08	660.73	738.52	684.53	629.55	569.56	510.01
30	1059.42	940.64	857.13	735.84	683.09	629.79	571.57	497.52
35	1054.65	941.78	854.45	734.19	684.81	625.46	557.18	490.61
40	1055.33	939.83	854.45	733.89	674.88	615.82	554.54	490.97
45	1053.97	959.53	853.54	728.99	673.27	615.36	554.54	490.97
50	1053.97	959.53	853.54	728.99	673.27	615.36	554.54	490.97

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00182	0.00192	0.00205	0.00225	0.00234	0.00250	0.00268	0.00292
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	549.	522.	498.	444.	424.	400.	373.	343.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	320.66	318.97	316.32	311.81	308.99	305.19	299.72	291.40
10	548.97	535.51	514.33	477.74	455.30	425.72	388.02	345.09
15	649.77	607.60	550.82	482.95	455.55	428.40	400.34	367.73
20	846.95	604.89	559.17	507.01	480.94	449.31	411.92	374.02
25	665.41	628.34	580.88	514.98	484.81	455.05	424.51	387.47
30	681.39	626.89	582.94	523.70	497.62	469.85	439.41	399.12
35	682.81	629.88	591.52	531.52	501.12	477.55	452.12	391.17
40	687.39	646.49	598.32	532.03	502.65	479.93	452.92	392.95
45	690.58	648.23	594.54	533.25	503.27	479.04	453.84	393.23
50	690.58	648.23	594.54	533.25	503.27	479.04	453.84	393.23

(Continued)

Table 5 - $\Delta f = 0.00125$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00350	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00325	0.00375	0.00425	0.00475	0.00525	0.00625	0.00792	0.00925	0.01125
CUTOFF WAVL. (M)	500.	400.	300.	218.	190.	200.	150.	125.	100.
TERMIN WAVL. (M)	308.	267.	218.	160.	140.	160.	126.	108.	89.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	459.18	610.09	493.72	365.43	218.64	158.91	131.76	106.94	86.08
10	561.00	382.40	290.68	246.58	204.89	148.04	124.68	99.59	81.57
15	442.75	291.76	237.54	192.22	143.34	122.25	96.10	80.10	66.10
20	440.61	368.64	275.38	234.58	188.81	143.16	121.06	97.47	80.88
25	438.27	351.93	275.52	230.58	188.61	142.74	119.90	96.63	80.88
30	423.41	351.63	271.01	230.61	186.98	142.31	119.61	96.51	80.88
35	423.09	349.30	270.97	229.07	186.32	142.11	119.47	96.42	80.88
40	422.65	348.11	269.76	228.91	186.23	142.11	119.47	96.42	80.88
45	421.13	348.11	269.81	228.62	186.09	142.03	119.42	96.40	80.88
50	421.13	348.11	269.81	228.65	186.09	142.03	119.42	96.40	80.88

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00350	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00325	0.00375	0.00425	0.00475	0.00525	0.00625	0.00792	0.00925	0.01125
CUTOFF WAVL. (M)	500.	400.	300.	218.	190.	200.	150.	125.	100.
TERMIN WAVL. (M)	308.	267.	218.	160.	140.	160.	126.	108.	89.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	277.81	252.78	202.96	171.50	146.46	117.99	100.54	86.08	71.94
10	304.39	286.46	216.33	188.61	161.55	126.55	107.97	88.65	74.51
15	324.40	277.86	228.26	197.27	164.19	129.34	110.45	90.22	76.10
20	337.26	287.51	231.49	201.39	167.36	130.74	111.51	91.17	77.10
25	340.80	291.25	234.85	202.86	168.62	131.59	112.02	91.49	77.40
30	344.24	294.44	235.83	204.07	169.44	132.12	112.32	91.70	77.70
35	346.64	295.29	237.02	204.51	169.84	132.41	112.52	91.82	77.82
40	347.30	295.77	237.26	204.94	170.09	132.54	112.62	91.87	77.87
45	347.67	296.19	237.57	205.07	170.18	132.57	112.66	91.94	77.94
50	347.60	296.19	237.57	205.07	170.18	132.57	112.66	91.94	77.94

Table 6 - $\Delta f = 0.00150$

Response = 0.8

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00150	0.00160	0.00163	0.00170	0.00175	0.00183	0.00190	0.00200
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	667.	625.	612.	588.	571.	545.	526.	500.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	759.67	757.62	756.63	755.24	753.88	751.53	749.85	746.53
10	375.07	359.10	353.47	341.30	331.47	324.40	319.77	316.53
15	184.30	1829.59	1811.37	1768.38	1732.84	1657.28	1613.37	1519.12
20	2218.55	2071.13	2044.17	1992.38	1956.54	1704.00	1588.60	1359.61
25	2355.72	2118.14	2031.47	1890.25	1707.54	1472.72	1302.90	1102.19
30	2322.32	1994.40	1882.14	1665.89	1514.34	1312.29	1187.68	1049.92
35	2245.92	1868.65	1777.07	1578.18	1441.84	1282.50	1174.58	1050.58
40	2218.55	1807.12	1768.84	1568.40	1441.71	1282.50	1177.43	1050.58
45	2242.85	1875.67	1782.67	1587.10	1449.16	1281.50	1177.43	1051.27
50	2270.62	1871.39	1755.12	1559.44	1441.62	1282.50	1178.28	1051.27

Response = 0.2

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00150	0.00160	0.00163	0.00170	0.00175	0.00183	0.00190	0.00200
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	667.	625.	612.	588.	571.	545.	526.	500.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	326.15	325.05	324.66	323.76	323.06	321.85	320.78	319.10
10	591.37	582.96	579.86	573.57	568.20	558.89	550.63	537.09
15	794.38	746.50	756.59	734.54	717.16	685.67	658.92	618.98
20	910.48	849.13	827.27	782.99	750.35	698.23	661.04	619.44
25	941.88	855.78	829.78	781.49	750.01	704.84	674.10	633.67
30	941.88	859.38	835.71	792.44	744.00	720.02	687.37	641.43
35	944.23	848.03	844.75	800.98	770.11	722.88	688.55	642.64
40	948.97	848.04	848.04	801.37	776.47	722.88	688.84	643.90
45	947.87	869.87	848.04	800.98	749.38	721.29	687.37	643.90
50	948.42	869.41	844.75	797.86	746.14	719.70	687.10	643.14

(Continued)

Table 6 - $\Delta f = 0.00150$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167		
TERMIN FREQ. (1/M)	0.00207	0.00217	0.00230	0.00250	0.00261	0.00275	0.00293	0.00317		
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.		
TERMIN WAVL. (M)	483.	462.	435.	400.	383.	364.	341.	316.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	733.89	730.61	725.12	715.93	710.03	702.42	691.45	679.66		
WAVELENGTH	1253.08	1224.06	1177.93	1076.29	1043.90	970.33	883.00	701.22		
WAVELENGTH	1444.16	1333.66	1159.93	886.34	759.05	645.93	557.37	488.13		
WAVELENGTH	1203.38	1024.32	846.94	700.02	648.74	598.50	544.77	489.95		
WAVELENGTH	998.72	898.49	800.59	695.56	647.46	595.67	542.79	486.68		
WAVELENGTH	975.53	894.08	800.98	692.62	646.18	595.98	540.10	479.01		
WAVELENGTH	976.69	893.59	799.41	693.21	644.66	590.73	532.38	472.50		
WAVELENGTH	976.69	893.59	799.41	691.75	642.38	589.03	532.38	472.37		
WAVELENGTH	978.94	898.98	806.50	692.04	641.88	589.03	533.42	474.01		

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167		
TERMIN FREQ. (1/M)	0.00207	0.00217	0.00230	0.00250	0.00261	0.00275	0.00293	0.00317		
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.		
TERMIN WAVL. (M)	483.	462.	435.	400.	383.	364.	341.	316.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	317.73	315.84	312.94	308.00	304.90	300.76	294.86	286.01		
WAVELENGTH	528.73	511.60	488.27	449.06	425.83	394.85	362.44	326.91		
WAVELENGTH	588.71	548.23	501.42	449.92	428.62	404.20	380.89	349.23		
WAVELENGTH	587.13	556.43	520.37	473.05	448.20	418.97	387.47	356.60		
WAVELENGTH	607.62	574.37	530.83	476.21	452.78	428.17	400.05	369.95		
WAVELENGTH	611.69	576.99	534.64	485.67	461.44	433.15	401.92	366.82		
WAVELENGTH	613.98	580.68	539.92	487.26	462.11	434.42	403.10	367.40		
WAVELENGTH	615.59	581.92	540.10	487.55	462.63	434.65	403.20	367.89		
WAVELENGTH	615.59	581.92	539.57	487.55	462.37	434.07	403.00	367.73		
WAVELENGTH	619.67	580.68	539.57	486.68	461.46	433.86	402.60	367.64		

(Continued)

Table 6 - $\Delta f = 0.00150$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00350	0.00400	0.00450	0.00500	0.00550	0.00600	0.00650	0.00700	0.00750	0.00800	0.00850	0.00900	0.00950	0.01000
TERMIN WAVL. (M)	500.	400.	300.	207.	182.	154.	122.	105.	87.	70.32	58.32	49.82	42.54	36.32	30.48	25.76	21.88
TERMIN WAVL. (M)	286.	250.	207.	182.	154.	122.	105.	87.	70.32	58.32	49.82	42.54	36.32	30.48	25.76	21.88	18.72
N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
WAVELENGTH	646.95	594.81	571.91	549.81	530.38	510.23	494.97	482.79	472.00	462.50	454.17	446.88	440.50	435.00	430.38	426.50	423.25
WAVELENGTH	498.98	463.32	442.56	428.54	419.73	413.75	408.81	404.76	401.46	398.79	396.61	394.92	393.69	392.80	392.22	391.92	391.76
WAVELENGTH	425.17	394.82	382.36	372.38	364.48	358.48	353.91	350.27	347.28	344.81	342.76	341.11	340.00	339.38	339.11	339.00	338.96
WAVELENGTH	424.18	352.38	268.35	229.48	225.85	222.49	219.21	216.93	214.63	212.31	210.97	209.61	208.22	206.81	205.38	204.92	204.50
WAVELENGTH	414.63	341.30	248.00	204.93	183.93	170.92	160.54	151.54	143.81	137.28	131.81	127.28	123.69	120.92	118.94	117.61	116.92
WAVELENGTH	409.04	341.08	264.88	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79
WAVELENGTH	408.83	339.11	264.75	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79
WAVELENGTH	408.63	339.04	264.71	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79
WAVELENGTH	408.43	339.04	264.71	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79	224.79
WAVELENGTH	408.23	339.18	264.91	224.82	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04
WAVELENGTH	408.173	339.67	264.66	224.63	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04	225.04

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00350	0.00400	0.00450	0.00500	0.00550	0.00600	0.00650	0.00700	0.00750	0.00800	0.00850	0.00900	0.00950	0.01000
TERMIN WAVL. (M)	500.	400.	300.	207.	182.	154.	122.	105.	87.	70.32	58.32	49.82	42.54	36.32	30.48	25.76	21.88
TERMIN WAVL. (M)	286.	250.	207.	182.	154.	122.	105.	87.	70.32	58.32	49.82	42.54	36.32	30.48	25.76	21.88	18.72
N	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
WAVELENGTH	271.251	245.18	195.89	157.16	147.16	144.09	141.52	139.44	137.82	136.61	135.62	134.81	134.17	133.69	133.35	133.12	132.98
WAVELENGTH	292.770	258.90	209.39	164.68	157.76	157.76	157.76	157.76	157.76	157.76	157.76	157.76	157.76	157.76	157.76	157.76	157.76
WAVELENGTH	308.664	268.08	220.50	192.42	180.74	180.74	180.74	180.74	180.74	180.74	180.74	180.74	180.74	180.74	180.74	180.74	180.74
WAVELENGTH	322.423	275.98	223.63	195.66	183.33	183.33	183.33	183.33	183.33	183.33	183.33	183.33	183.33	183.33	183.33	183.33	183.33
WAVELENGTH	324.134	278.52	224.91	196.40	184.06	184.06	184.06	184.06	184.06	184.06	184.06	184.06	184.06	184.06	184.06	184.06	184.06
WAVELENGTH	326.08	281.01	227.35	197.53	185.19	185.19	185.19	185.19	185.19	185.19	185.19	185.19	185.19	185.19	185.19	185.19	185.19
WAVELENGTH	327.771	281.99	227.98	197.89	185.54	185.54	185.54	185.54	185.54	185.54	185.54	185.54	185.54	185.54	185.54	185.54	185.54
WAVELENGTH	327.78	281.58	228.08	197.98	185.25	185.25	185.25	185.25	185.25	185.25	185.25	185.25	185.25	185.25	185.25	185.25	185.25
WAVELENGTH	327.65	281.99	228.01	197.91	185.22	185.22	185.22	185.22	185.22	185.22	185.22	185.22	185.22	185.22	185.22	185.22	185.22
WAVELENGTH	327.32	281.39	227.92	197.86	185.15	185.15	185.15	185.15	185.15	185.15	185.15	185.15	185.15	185.15	185.15	185.15	185.15

Table 7 - $\Delta f = 0.00175$

Response = 0.8

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN WAVL. (M)	0.00175	0.00185	0.00195	0.00200	0.00208	0.00215	0.00225
CUTOFF WAVL. (M)	INFIN	10000.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	571.	541.	513.	500.	480.	465.	448.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	745.57	743.21	740.52	738.85	736.53	734.21	730.61
10	1344.60	1327.18	1306.02	1294.67	1284.52	1274.73	1266.92
15	1783.78	1721.91	1698.70	1694.12	1686.24	1678.72	1668.18
20	1999.27	1854.44	1801.43	1799.94	1799.22	1791.62	1784.12
25	2001.71	1768.38	1688.20	1626.22	1599.38	1584.20	1574.22
30	1924.13	1660.82	1577.66	1522.84	1494.69	1484.67	1474.37
35	1901.80	1642.51	1561.12	1511.81	1483.35	1474.90	1464.67
40	1933.22	1652.45	1565.60	1509.15	1472.38	1464.67	1454.11
45	1949.32	1644.15	1555.20	1500.94	1463.22	1455.39	1444.11
50	1942.38	1632.69	1547.85	1494.98	1454.78	1446.11	1434.03

Response = 0.2

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN WAVL. (M)	0.00175	0.00185	0.00195	0.00200	0.00208	0.00215	0.00225
CUTOFF WAVL. (M)	INFIN	10000.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	571.	541.	513.	500.	480.	465.	448.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	323.95	322.41	321.22	320.41	319.03	317.80	315.90
10	575.18	565.45	554.33	548.42	537.82	528.43	513.38
15	742.53	710.34	674.93	655.75	622.85	596.11	556.02
20	804.89	744.56	687.10	661.04	622.37	595.89	561.94
25	811.29	744.90	693.21	670.51	636.44	611.69	577.00
30	813.30	753.11	702.12	678.85	642.38	615.36	578.22
35	812.50	754.85	703.03	679.13	642.38	615.36	578.88
40	813.30	754.85	702.42	678.01	640.13	613.29	577.81
45	813.30	753.46	699.13	674.93	638.63	612.60	577.81
50	812.09	751.04	698.23	674.64	638.63	612.37	576.80

(Continued)

Table 7 - $\Delta f = 0.00175$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167		
TERMIN FREQ. (1/M)	0.00232	0.00242	0.00255	0.00275	0.00284	0.00300	0.00318	0.00342		
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.		
TERMIN WAVL. (M)	431.	414.	372.	344.	350.	333.	315.	293.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	728.02	1172.38	1121.04	1030.76	972.83	893.10	828.89	776.89	728.02	683.45
WAVELENGTH	723.83	1166.54	1115.04	1026.69	969.51	890.25	826.04	774.04	725.11	680.54
WAVELENGTH	884.90	884.90	884.90	884.90	884.90	884.90	884.90	884.90	884.90	884.90
WAVELENGTH	836.13	836.13	836.13	836.13	836.13	836.13	836.13	836.13	836.13	836.13
WAVELENGTH	837.41	837.41	837.41	837.41	837.41	837.41	837.41	837.41	837.41	837.41
WAVELENGTH	836.99	836.99	836.99	836.99	836.99	836.99	836.99	836.99	836.99	836.99
WAVELENGTH	836.99	836.99	836.99	836.99	836.99	836.99	836.99	836.99	836.99	836.99
WAVELENGTH	841.28	841.28	841.28	841.28	841.28	841.28	841.28	841.28	841.28	841.28
WAVELENGTH	846.06	846.06	846.06	846.06	846.06	846.06	846.06	846.06	846.06	846.06

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167		
TERMIN FREQ. (1/M)	0.00232	0.00242	0.00255	0.00275	0.00284	0.00300	0.00318	0.00342		
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.		
TERMIN WAVL. (M)	431.	414.	372.	344.	350.	333.	315.	293.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	314.44	312.34	309.14	303.72	300.43	295.93	289.60	280.14	263.45	247.97
WAVELENGTH	485.24	485.24	485.24	485.24	485.24	485.24	485.24	485.24	485.24	485.24
WAVELENGTH	499.13	499.13	499.13	499.13	499.13	499.13	499.13	499.13	499.13	499.13
WAVELENGTH	516.11	516.11	516.11	516.11	516.11	516.11	516.11	516.11	516.11	516.11
WAVELENGTH	524.37	524.37	524.37	524.37	524.37	524.37	524.37	524.37	524.37	524.37
WAVELENGTH	528.39	528.39	528.39	528.39	528.39	528.39	528.39	528.39	528.39	528.39
WAVELENGTH	527.58	527.58	527.58	527.58	527.58	527.58	527.58	527.58	527.58	527.58
WAVELENGTH	527.58	527.58	527.58	527.58	527.58	527.58	527.58	527.58	527.58	527.58
WAVELENGTH	526.39	526.39	526.39	526.39	526.39	526.39	526.39	526.39	526.39	526.39
WAVELENGTH	526.73	526.73	526.73	526.73	526.73	526.73	526.73	526.73	526.73	526.73

(Continued)

Table 7 - $\Delta f = 0.00175$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000		
TERMIN FREQ. (1/M)	0.00375	0.00425	0.00506	0.00575	0.00675	0.00842	0.00975	0.01175		
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.		
TERMIN WAVL. (M)	267.	235.	197.	174.	148.	119.	103.	85.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	633.93	578.22	448.08	318.69	203.09	152.12	127.93	106.30	97.17	84.10
WAVELENGTH	453.16	348.19	274.78	234.81	194.53	143.54	121.54	106.30	97.17	84.10
WAVELENGTH	409.04	343.44	272.86	224.92	184.91	140.83	119.36	106.30	97.17	84.10
WAVELENGTH	408.83	337.71	261.87	224.61	182.14	139.75	118.23	106.30	97.17	84.10
WAVELENGTH	397.72	331.69	260.91	221.54	181.59	139.30	117.60	106.30	97.17	84.10
WAVELENGTH	396.18	331.43	259.30	221.27	181.17	139.12	117.35	106.30	97.17	84.10
WAVELENGTH	396.08	330.89	259.30	221.03	181.03	139.08	117.33	106.30	97.17	84.10
WAVELENGTH	397.24	330.82	259.43	221.30	181.19	139.10	117.36	106.30	97.17	84.10
WAVELENGTH	396.95	331.36	259.59	221.24	181.17	139.14	117.40	106.30	97.17	84.10
WAVELENGTH	397.04	331.43	259.67	221.39	181.23	139.18	117.40	106.30	97.17	84.10

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000		
TERMIN FREQ. (1/M)	0.00375	0.00425	0.00506	0.00575	0.00675	0.00842	0.00975	0.01175		
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.		
TERMIN WAVL. (M)	267.	235.	197.	174.	148.	119.	103.	85.		
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	289.75	237.29	186.92	163.23	141.80	113.72	98.41	83.97		
WAVELENGTH	282.36	249.97	203.39	180.87	154.01	124.14	105.25	86.89		
WAVELENGTH	284.97	260.17	213.26	187.17	157.44	124.82	107.15	88.02		
WAVELENGTH	308.79	289.71	218.39	189.86	159.28	125.94	107.84	88.98		
WAVELENGTH	308.81	288.92	218.61	190.61	160.23	126.47	108.20	89.48		
WAVELENGTH	309.57	288.22	219.17	191.24	160.57	126.64	108.34	89.07		
WAVELENGTH	309.92	288.39	219.32	191.32	160.60	126.69	108.38	89.07		
WAVELENGTH	309.75	288.13	219.17	191.22	160.54	126.66	108.36	89.06		
WAVELENGTH	309.39	287.95	219.05	191.17	160.48	126.62	108.33	89.04		
WAVELENGTH	309.34	287.91	218.99	191.12	160.45	126.60	108.31	89.03		

Table 8 - $\Delta f = 0.00200$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00257	0.00267	0.00280	0.00300	0.00311	0.00325	0.00343	0.00367
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	389.	375.	357.	333.	321.	308.	292.	273.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	320.97	716.87	710.34	659.52	627.62	603.66	570.79	541.58
10	1150.97	1114.94	1058.06	959.53	877.02	812.50	755.56	709.52
15	1124.89	1007.94	850.90	672.99	608.28	550.63	498.83	452.82
20	886.82	800.94	714.06	624.75	566.08	513.69	466.86	425.86
25	852.22	787.50	712.81	624.27	584.20	542.07	504.71	471.55
30	853.56	787.88	712.19	624.03	584.91	541.71	504.94	471.68
35	854.00	788.26	712.50	624.70	587.77	543.87	504.31	471.68
40	854.85	790.16	717.61	630.28	588.19	542.61	504.31	471.68
45	857.58	794.76	720.33	628.62	587.35	542.79	504.76	473.23
50	858.98	795.15	719.70	628.58	587.35	542.79	505.06	473.99

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00257	0.00267	0.00280	0.00300	0.00311	0.00325	0.00343	0.00367
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	389.	375.	357.	333.	321.	308.	292.	273.
N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
5	310.74	308.46	304.96	299.11	295.55	290.73	283.93	273.82
10	474.55	456.95	430.87	391.07	370.22	347.01	322.55	298.03
15	485.39	461.07	433.50	400.54	384.65	366.00	342.87	319.26
20	501.27	479.13	450.05	410.26	390.89	370.39	348.71	323.89
25	505.91	481.53	451.79	415.15	397.43	376.95	352.91	325.93
30	508.54	482.95	453.79	416.31	398.01	377.12	353.37	326.02
35	505.45	482.52	453.54	415.68	397.53	377.03	353.14	325.43
40	505.29	481.49	452.66	415.78	397.24	376.17	352.53	325.19
45	504.67	481.81	453.03	415.15	396.85	376.06	352.38	325.24
50	504.82	481.84	452.78	415.15	396.85	376.06	352.96	325.18

(Continued)

Table 8 - $\Delta f = 0.00200$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000	0.01200
TERMIN FREQ. (1/M)	0.00400	0.00500	0.00667	0.00800	0.01000	0.01333	0.01600	0.02000	0.02400
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.	83.
TERMIN WAVL. (M)	250.	222.	187.	167.	143.	115.	100.	83.	71.
N	5	5	5	5	5	5	5	5	5
WAVELENGTH	620.02	560.81	423.05	295.02	194.96	149.84	126.15	105.21	90.82
10	419.03	335.70	267.43	229.71	182.18	141.53	120.10	98.12	85.16
15	393.99	323.25	263.64	219.99	171.69	138.94	117.99	95.16	82.70
20	373.99	325.50	255.82	219.88	179.27	137.94	116.87	94.70	82.38
25	364.74	322.93	254.79	217.60	178.72	137.67	116.38	94.38	82.35
30	364.56	322.81	254.27	217.51	178.62	137.65	116.31	94.35	82.33
35	364.03	323.25	254.67	217.54	178.70	137.71	116.34	94.38	82.35
40	364.28	323.12	254.67	217.63	178.85	137.78	116.39	94.41	82.38
45	365.02	323.63	254.87	217.77	179.05	137.77	116.39	94.41	82.38
50	365.82	323.51	254.83	217.83	179.05	137.78	116.40	94.42	82.39

Response = 0.2

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000	0.01200
TERMIN FREQ. (1/M)	0.00400	0.00500	0.00667	0.00800	0.01000	0.01333	0.01600	0.02000	0.02400
CUTOFF WAVL. (M)	500.	400.	300.	250.	200.	150.	125.	100.	83.
TERMIN WAVL. (M)	250.	222.	187.	167.	143.	115.	100.	83.	71.
N	5	5	5	5	5	5	5	5	5
WAVELENGTH	257.59	229.23	182.72	159.68	139.54	111.69	97.90	82.88	71.90
10	272.77	241.53	197.48	177.11	150.36	119.93	103.86	85.88	74.88
15	283.09	251.42	206.70	182.07	154.14	122.50	105.43	86.97	75.97
20	291.97	254.55	209.63	184.18	155.34	123.52	106.01	87.44	76.44
25	293.70	255.84	211.51	184.89	156.12	123.88	106.31	87.66	76.66
30	293.91	256.30	211.17	185.12	156.21	123.94	106.37	87.71	76.71
35	293.70	256.22	211.04	185.01	156.12	123.89	106.34	87.68	76.68
40	293.59	255.94	210.90	184.95	156.09	123.89	106.30	87.66	76.66
45	293.33	255.86	210.88	184.87	156.03	123.83	106.28	87.65	76.65
50	293.33	255.82	210.88	184.89	156.03	123.84	106.28	87.65	76.65

Table 9 - $\Delta f = 0.00250$

Response = 0.8

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00250	0.00260	0.00263	0.00270	0.00275	0.00283	0.00290	0.00300
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	400.	385.	380.	370.	364.	353.	345.	333.
N	5	5	5	5	5	5	5	5
WAVELENGTH	729.31	725.76	724.47	721.92	720.02	716.55	713.43	708.80
10	1224.97	1198.10	1188.54	1168.20	1151.78	1123.35	1099.23	1059.42
15	1414.24	1329.33	1298.77	1237.00	1187.68	1102.93	1033.36	929.59
20	1357.98	1229.57	1186.82	1104.42	1045.23	954.50	890.68	808.89
25	1334.75	1204.26	1162.40	1082.52	1026.24	941.34	881.57	805.70
30	1362.49	1214.98	1167.37	1080.38	1021.13	935.96	877.79	804.52
35	1357.98	1202.50	1155.84	1071.90	1015.43	934.36	878.26	805.70
40	1353.49	1197.85	1154.21	1071.20	1015.43	934.36	878.26	805.70
45	1354.41	1197.85	1154.21	1071.20	1015.43	934.36	878.26	805.70
50	1354.41	1200.73	1155.02	1071.20	1014.80	933.83	876.05	804.52
						932.23	874.38	804.50

Response = 0.2

CUTOFF FREQ. (1/M)	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00250	0.00260	0.00263	0.00270	0.00275	0.00283	0.00290	0.00300
CUTOFF WAVL. (M)	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	400.	385.	380.	370.	364.	353.	345.	333.
N	5	5	5	5	5	5	5	5
WAVELENGTH	318.17	313.30	312.64	311.28	310.16	308.29	306.67	304.17
10	511.44	497.46	492.53	482.38	474.28	460.16	448.45	430.20
15	545.26	533.59	523.37	503.89	490.17	469.12	453.91	433.73
20	567.02	537.62	528.60	511.20	499.13	479.84	465.39	444.67
25	568.99	539.92	530.83	513.20	500.81	480.82	465.79	444.67
30	549.19	540.10	530.83	512.54	499.44	478.71	463.28	442.39
35	568.40	537.97	528.43	510.17	497.31	477.60	462.09	442.39
40	567.80	537.62	528.26	510.33	497.46	477.60	462.76	442.15
45	567.91	537.44	528.26	510.33	497.46	477.46	462.50	441.92
50	567.91	537.44	527.92	509.69	496.86	476.90	462.24	441.92

(Continued)

Table 9 - $\Delta f = 0.00250$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00143	0.00193	0.00255	0.00335	0.00447	0.00617
TERMIN FREQ. (1/M)	0.00307	0.00317	0.00330	0.00350	0.00361	0.00375	0.00385	0.00395	0.00405	0.00417
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.	500.	400.
TERMIN WAVL. (M)	326.	316.	303.	286.	277.	267.	256.	240.	216.	190.
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	705.14	1026.82	858.50	773.01	705.75	644.64	591.97	546.23	505.80	468.97
	705.14	919.16	807.29	740.19	676.80	623.39	578.57	537.12	498.20	461.80
	1026.82	1250.00	1000.00	900.00	800.00	700.00	600.00	500.00	400.00	300.00
	858.50	773.01	705.75	644.64	591.97	546.23	505.80	468.97	433.54	400.00
	773.01	705.75	644.64	591.97	546.23	505.80	468.97	433.54	400.00	367.50
	705.75	644.64	591.97	546.23	505.80	468.97	433.54	400.00	367.50	336.00
	644.64	591.97	546.23	505.80	468.97	433.54	400.00	367.50	336.00	306.00
	591.97	546.23	505.80	468.97	433.54	400.00	367.50	336.00	306.00	277.00
	546.23	505.80	468.97	433.54	400.00	367.50	336.00	306.00	277.00	249.00
	505.80	468.97	433.54	400.00	367.50	336.00	306.00	277.00	249.00	222.00
	468.97	433.54	400.00	367.50	336.00	306.00	277.00	249.00	222.00	196.00
	433.54	400.00	367.50	336.00	306.00	277.00	249.00	222.00	196.00	171.00
	400.00	367.50	336.00	306.00	277.00	249.00	222.00	196.00	171.00	147.00
	367.50	336.00	306.00	277.00	249.00	222.00	196.00	171.00	147.00	120.00
	336.00	306.00	277.00	249.00	222.00	196.00	171.00	147.00	120.00	96.00
	306.00	277.00	249.00	222.00	196.00	171.00	147.00	120.00	96.00	72.00
	277.00	249.00	222.00	196.00	171.00	147.00	120.00	96.00	72.00	48.00
	249.00	222.00	196.00	171.00	147.00	120.00	96.00	72.00	48.00	24.00
	222.00	196.00	171.00	147.00	120.00	96.00	72.00	48.00	24.00	0.00
	196.00	171.00	147.00	120.00	96.00	72.00	48.00	24.00	0.00	0.00
	171.00	147.00	120.00	96.00	72.00	48.00	24.00	0.00	0.00	0.00
	147.00	120.00	96.00	72.00	48.00	24.00	0.00	0.00	0.00	0.00
	120.00	96.00	72.00	48.00	24.00	0.00	0.00	0.00	0.00	0.00
	96.00	72.00	48.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
	72.00	48.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	48.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Response = 0.2

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00080	0.00100	0.00143	0.00193	0.00255	0.00335	0.00447	0.00617
TERMIN FREQ. (1/M)	0.00307	0.00317	0.00330	0.00350	0.00361	0.00375	0.00385	0.00395	0.00405	0.00417
CUTOFF WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.	500.	400.
TERMIN WAVL. (M)	326.	316.	303.	286.	277.	267.	256.	240.	216.	190.
N	5	10	15	20	25	30	35	40	45	50
WAVELENGTH	302.20	416.95	420.90	430.53	428.73	411.71	390.42	374.79	358.87	342.58
	302.20	416.95	420.90	430.53	428.73	411.71	390.42	374.79	358.87	342.58
	416.95	420.90	430.53	428.73	411.71	390.42	374.79	358.87	342.58	326.00
	420.90	430.53	428.73	411.71	390.42	374.79	358.87	342.58	326.00	306.00
	430.53	428.73	411.71	390.42	374.79	358.87	342.58	326.00	306.00	286.00
	428.73	411.71	390.42	374.79	358.87	342.58	326.00	306.00	286.00	267.00
	411.71	390.42	374.79	358.87	342.58	326.00	306.00	286.00	267.00	249.00
	390.42	374.79	358.87	342.58	326.00	306.00	286.00	267.00	249.00	222.00
	374.79	358.87	342.58	326.00	306.00	286.00	267.00	249.00	222.00	196.00
	358.87	342.58	326.00	306.00	286.00	267.00	249.00	222.00	196.00	171.00
	342.58	326.00	306.00	286.00	267.00	249.00	222.00	196.00	171.00	147.00
	326.00	306.00	286.00	267.00	249.00	222.00	196.00	171.00	147.00	120.00
	306.00	286.00	267.00	249.00	222.00	196.00	171.00	147.00	120.00	96.00
	286.00	267.00	249.00	222.00	196.00	171.00	147.00	120.00	96.00	72.00
	267.00	249.00	222.00	196.00	171.00	147.00	120.00	96.00	72.00	48.00
	249.00	222.00	196.00	171.00	147.00	120.00	96.00	72.00	48.00	24.00
	222.00	196.00	171.00	147.00	120.00	96.00	72.00	48.00	24.00	0.00
	196.00	171.00	147.00	120.00	96.00	72.00	48.00	24.00	0.00	0.00
	171.00	147.00	120.00	96.00	72.00	48.00	24.00	0.00	0.00	0.00
	147.00	120.00	96.00	72.00	48.00	24.00	0.00	0.00	0.00	0.00
	120.00	96.00	72.00	48.00	24.00	0.00	0.00	0.00	0.00	0.00
	96.00	72.00	48.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00
	72.00	48.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	48.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

(Continued)

Table 10 - $\Delta f = 0.00300$

Response = 0.8

CUTOFF FREQ. (1/M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	5	719.99	709.42	0.00013	0.00020	0.00025	0.00033	0.00040
0.00300	10	1121.81	1077.54	0.00313	0.00320	0.00325	0.00333	0.00340
INFIN	15	1157.47	1075.42	7500.	5000.	4000.	3000.	2500.
CUTOFF WAVL. (M)	20	1108.90	1019.22	319.	313.	308.	300.	286.
CUTOFF WAVL. (M)	25	1135.81	998.72					
	30	1130.32	1021.13					
	35	1127.99	986.69					
	40	1129.54	1019.84					
	45	1129.54	1020.49					
	50	1129.54	1020.49					

Response = 0.2

CUTOFF FREQ. (1/M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	5	307.98	304.45	0.00013	0.00020	0.00025	0.00033	0.00040
0.00300	10	458.61	437.31	0.00313	0.00320	0.00325	0.00333	0.00340
INFIN	15	471.01	442.87	7500.	5000.	4000.	3000.	2500.
CUTOFF WAVL. (M)	20	474.42	447.47	319.	313.	308.	300.	286.
	25	474.28	447.47					
	30	473.46	445.40					
	35	473.18	445.20					
	40	472.77	445.03					
	45	472.64	444.79					
	50	472.77	444.79					

(Continued)

Table 10 - $\Delta f = 0.00300$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00057	0.00057	1750.	280.	5	686.24	686.24	686.24	686.24	686.24	686.24
0.00357	0.00357	1500.	273.	10	460.54	460.54	460.54	460.54	460.54	460.54
				15	313.75	313.75	313.75	313.75	313.75	313.75
				20	232.62	232.62	232.62	232.62	232.62	232.62
				25	185.38	185.38	185.38	185.38	185.38	185.38
				30	149.23	149.23	149.23	149.23	149.23	149.23
				35	119.52	119.52	119.52	119.52	119.52	119.52
				40	94.95	94.95	94.95	94.95	94.95	94.95
				45	74.14	74.14	74.14	74.14	74.14	74.14
				50	58.24	58.24	58.24	58.24	58.24	58.24
				55	46.66	46.66	46.66	46.66	46.66	46.66
				60	38.73	38.73	38.73	38.73	38.73	38.73
				65	32.73	32.73	32.73	32.73	32.73	32.73
				70	28.14	28.14	28.14	28.14	28.14	28.14
				75	24.52	24.52	24.52	24.52	24.52	24.52
				80	21.57	21.57	21.57	21.57	21.57	21.57
				85	19.14	19.14	19.14	19.14	19.14	19.14
				90	17.14	17.14	17.14	17.14	17.14	17.14
				95	15.43	15.43	15.43	15.43	15.43	15.43
				100	13.93	13.93	13.93	13.93	13.93	13.93
				105	12.58	12.58	12.58	12.58	12.58	12.58
				110	11.35	11.35	11.35	11.35	11.35	11.35
				115	10.22	10.22	10.22	10.22	10.22	10.22
				120	9.18	9.18	9.18	9.18	9.18	9.18
				125	8.22	8.22	8.22	8.22	8.22	8.22
				130	7.33	7.33	7.33	7.33	7.33	7.33
				135	6.50	6.50	6.50	6.50	6.50	6.50
				140	5.73	5.73	5.73	5.73	5.73	5.73
				145	5.01	5.01	5.01	5.01	5.01	5.01
				150	4.34	4.34	4.34	4.34	4.34	4.34
				155	3.71	3.71	3.71	3.71	3.71	3.71
				160	3.11	3.11	3.11	3.11	3.11	3.11
				165	2.54	2.54	2.54	2.54	2.54	2.54
				170	2.00	2.00	2.00	2.00	2.00	2.00
				175	1.50	1.50	1.50	1.50	1.50	1.50
				180	1.03	1.03	1.03	1.03	1.03	1.03
				185	0.67	0.67	0.67	0.67	0.67	0.67
				190	0.40	0.40	0.40	0.40	0.40	0.40
				195	0.24	0.24	0.24	0.24	0.24	0.24
				200	0.15	0.15	0.15	0.15	0.15	0.15
				205	0.09	0.09	0.09	0.09	0.09	0.09
				210	0.06	0.06	0.06	0.06	0.06	0.06
				215	0.04	0.04	0.04	0.04	0.04	0.04
				220	0.03	0.03	0.03	0.03	0.03	0.03
				225	0.02	0.02	0.02	0.02	0.02	0.02
				230	0.01	0.01	0.01	0.01	0.01	0.01
				235	0.01	0.01	0.01	0.01	0.01	0.01
				240	0.01	0.01	0.01	0.01	0.01	0.01
				245	0.01	0.01	0.01	0.01	0.01	0.01
				250	0.01	0.01	0.01	0.01	0.01	0.01
				255	0.01	0.01	0.01	0.01	0.01	0.01
				260	0.01	0.01	0.01	0.01	0.01	0.01
				265	0.01	0.01	0.01	0.01	0.01	0.01
				270	0.01	0.01	0.01	0.01	0.01	0.01
				275	0.01	0.01	0.01	0.01	0.01	0.01
				280	0.01	0.01	0.01	0.01	0.01	0.01
				285	0.01	0.01	0.01	0.01	0.01	0.01
				290	0.01	0.01	0.01	0.01	0.01	0.01
				295	0.01	0.01	0.01	0.01	0.01	0.01
				300	0.01	0.01	0.01	0.01	0.01	0.01
				305	0.01	0.01	0.01	0.01	0.01	0.01
				310	0.01	0.01	0.01	0.01	0.01	0.01
				315	0.01	0.01	0.01	0.01	0.01	0.01
				320	0.01	0.01	0.01	0.01	0.01	0.01
				325	0.01	0.01	0.01	0.01	0.01	0.01
				330	0.01	0.01	0.01	0.01	0.01	0.01
				335	0.01	0.01	0.01	0.01	0.01	0.01
				340	0.01	0.01	0.01	0.01	0.01	0.01
				345	0.01	0.01	0.01	0.01	0.01	0.01
				350	0.01	0.01	0.01	0.01	0.01	0.01
				355	0.01	0.01	0.01	0.01	0.01	0.01
				360	0.01	0.01	0.01	0.01	0.01	0.01
				365	0.01	0.01	0.01	0.01	0.01	0.01
				370	0.01	0.01	0.01	0.01	0.01	0.01
				375	0.01	0.01	0.01	0.01	0.01	0.01
				380	0.01	0.01	0.01	0.01	0.01	0.01
				385	0.01	0.01	0.01	0.01	0.01	0.01
				390	0.01	0.01	0.01	0.01	0.01	0.01
				395	0.01	0.01	0.01	0.01	0.01	0.01
				400	0.01	0.01	0.01	0.01	0.01	0.01
				405	0.01	0.01	0.01	0.01	0.01	0.01
				410	0.01	0.01	0.01	0.01	0.01	0.01
				415	0.01	0.01	0.01	0.01	0.01	0.01
				420	0.01	0.01	0.01	0.01	0.01	0.01
				425	0.01	0.01	0.01	0.01	0.01	0.01
				430	0.01	0.01	0.01	0.01	0.01	0.01
				435	0.01	0.01	0.01	0.01	0.01	0.01
				440	0.01	0.01	0.01	0.01	0.01	0.01
				445	0.01	0.01	0.01	0.01	0.01	0.01
				450	0.01	0.01	0.01	0.01	0.01	0.01
				455	0.01	0.01	0.01	0.01	0.01	0.01
				460	0.01	0.01	0.01	0.01	0.01	0.01
				465	0.01	0.01	0.01	0.01	0.01	0.01
				470	0.01	0.01	0.01	0.01	0.01	0.01
				475	0.01	0.01	0.01	0.01	0.01	0.01
				480	0.01	0.01	0.01	0.01	0.01	0.01
				485	0.01	0.01	0.01	0.01	0.01	0.01
				490	0.01	0.01	0.01	0.01	0.01	0.01
				495	0.01	0.01	0.01	0.01	0.01	0.01
				500	0.01	0.01	0.01	0.01	0.01	0.01

Response = 0.2

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00057	0.00057	1750.	280.	5	292.13	292.13	292.13	292.13	292.13	292.13
0.00357	0.00357	1500.	273.	10	200.98	200.98	200.98	200.98	200.98	200.98
				15	146.32	146.32	146.32	146.32	146.32	146.32
				20	109.78	109.78	109.78	109.78	109.78	109.78
				25	84.44	84.44	84.44	84.44	84.44	84.44
				30	66.71	66.71	66.71	66.71	66.71	66.71
				35	53.58	53.58	53.58	53.58	53.58	53.58
				40	43.99	43.99	43.99	43.99	43.99	43.99
				45	36.32	36.32	36.32	36.32	36.32	36.32
				50	30.16	30.16	30.16	30.16	30.16	30.16
				55	25.57	25.57	25.57	25.57	25.57	25.57
				60	22.07	22.07	22.07	22.07	22.07	22.07
				65	19.14	19.14	19.14	19.14	19.14	19.14
				70	16.66	16.66	16.66	16.66	16.66	16.66
				75	14.52	14.52	14.52	14.52	14.52	14.52
				80	12.73	12.73	12.73	12.73	12.73	12.73
				85	11.24	11.24	11.24	11.24	11.24	11.24
				90	9.93	9.93	9.93	9.93	9.93	9.93
				95	8.78	8.78	8.78	8.78	8.78	8.78
				100	7.77	7.77	7.77	7.77	7.77	7.77

Table 10 - $\Delta f = 0.00300$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00200	0.00500	500.	200.	5	554.73	480.96	400.00	327.58	234.09	179.19	131.17	100.00	78.54	61.65	49.60
0.00500	0.01250	400.	160.	10	348.56	299.28	242.24	212.46	174.80	149.80	124.44	100.00	78.54	61.65	49.60
0.01250	0.03125	300.	120.	15	346.35	298.41	236.57	204.53	170.57	149.80	124.44	100.00	78.54	61.65	49.60
0.03125	0.07812	200.	80.	20	345.84	294.49	236.20	204.30	169.53	149.80	124.44	100.00	78.54	61.65	49.60
0.07812	0.19531	150.	60.	25	345.98	294.49	237.02	204.35	169.53	149.80	124.44	100.00	78.54	61.65	49.60
0.19531	0.48828	100.	40.	30	346.06	295.50	236.85	204.66	169.91	149.80	124.44	100.00	78.54	61.65	49.60
0.48828	1.22070	75.	30.	35	346.27	295.34	237.02	204.61	169.88	149.80	124.44	100.00	78.54	61.65	49.60
1.22070	3.05175	60.	24.	40	346.71	295.23	237.02	204.71	169.93	149.80	124.44	100.00	78.54	61.65	49.60
3.05175	7.62938	45.	18.	45	346.71	295.55	237.12	204.74	169.95	149.80	124.44	100.00	78.54	61.65	49.60
7.62938	19.07345	30.	12.	50	346.57	295.55	237.12	204.74	169.95	149.80	124.44	100.00	78.54	61.65	49.60

Response = 0.2

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00200	0.00500	500.	200.	5	226.06	197.62	163.50	127.89	97.89	78.54	61.65	49.60	39.68	31.72	25.51
0.00500	0.01250	400.	160.	10	237.05	209.47	179.17	161.46	137.93	111.04	89.67	70.79	56.63	45.31	36.25
0.01250	0.03125	300.	120.	15	243.14	216.59	183.52	163.10	140.51	113.71	89.67	70.79	56.63	45.31	36.25
0.03125	0.07812	200.	80.	20	243.76	217.34	183.96	163.66	140.77	114.04	89.67	70.79	56.63	45.31	36.25
0.07812	0.19531	150.	60.	25	243.28	216.93	183.81	163.68	140.68	113.94	89.67	70.79	56.63	45.31	36.25
0.19531	0.48828	100.	40.	30	243.07	216.82	183.58	163.59	140.59	113.89	89.67	70.79	56.63	45.31	36.25
0.48828	1.22070	75.	30.	35	243.10	216.76	183.61	163.57	140.58	113.90	89.67	70.79	56.63	45.31	36.25
1.22070	3.05175	60.	24.	40	243.07	216.68	183.54	163.55	140.54	113.88	89.67	70.79	56.63	45.31	36.25
3.05175	7.62938	45.	18.	45	242.94	216.65	183.50	163.50	140.53	113.86	89.67	70.79	56.63	45.31	36.25
7.62938	19.07345	30.	12.	50	243.00	216.65	183.52	163.52	140.53	113.87	89.67	70.79	56.63	45.31	36.25

Table 11 - $\Delta f = 0.00400$

Response = 0.8

CUTOFF FREQ. (1/M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	5	678.24	672.44	670.24	668.15	662.92	657.33	645.17
0.00400	10	883.00	873.88	830.62	802.94	781.87	745.57	716.24
INFIN	15	832.31	781.49	764.71	731.92	707.89	669.69	640.88
10000.	20	852.67	791.31	771.19	733.23	704.64	665.34	635.65
250.	25	845.63	788.11	764.71	728.34	702.72	663.45	634.92
	30	848.94	784.49	765.07	728.66	703.03	663.45	634.92
	35	846.94	784.86	765.43	728.66	702.72	662.92	633.93
	40	847.38	784.99	764.71	727.05	700.92	660.78	631.96
	45	846.50	782.99	763.29	725.74	699.72	660.25	631.96
	50	847.38	782.61	762.50	724.80	699.13	659.98	631.98

Response = 0.2

CUTOFF FREQ. (1/M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00000	5	287.67	284.57	283.48	281.29	279.57	276.59	274.14
0.00400	10	353.22	340.45	336.39	328.50	322.81	313.84	307.13
INFIN	15	355.75	343.17	340.45	333.18	327.91	319.47	312.94
10000.	20	355.83	343.95	340.09	332.50	326.99	318.04	311.22
250.	25	354.90	342.87	339.04	331.56	326.21	317.55	310.98
	30	354.59	342.80	338.97	331.56	326.15	317.37	310.63
	35	354.44	342.51	338.62	331.16	325.69	317.06	310.45
	40	354.59	342.58	338.76	331.29	325.89	317.24	310.57
	45	354.67	342.73	338.83	331.36	325.89	317.24	310.63
	50	354.75	342.65	338.74	331.22	325.82	317.24	310.63

(Continued)

Table 11 - $\Delta f = 0.00400$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167	0.00193	0.00225	0.00267	0.00317
1750.	1500.	1250.	1000.	900.	800.	700.	600.	500.	400.	300.	200.
219.	219.	208.	200.	198.	190.	189.	176.	189.	190.	189.	176.
639.63	631.98	620.99	601.90	590.52	575.58	559.92	529.20	511.14	497.82	487.91	479.00
440.38	599.38	545.50	477.04	446.13	419.00	391.14	367.74	347.82	331.32	319.51	311.92
574.37	542.61	503.58	455.30	427.70	406.53	383.66	351.90	330.30	303.66	283.03	261.17
570.77	540.64	503.27	455.91	433.27	410.88	383.00	351.32	329.66	303.00	282.33	261.17
571.17	540.62	503.93	456.95	435.11	411.92	383.66	351.90	330.30	303.66	283.03	261.17
569.78	539.57	503.93	458.61	436.94	412.02	383.66	351.32	329.66	303.00	282.33	261.17
570.37	540.99	504.98	459.00	436.95	411.50	383.03	351.17	329.12	303.12	282.33	261.17
569.98	540.99	504.98	459.00	436.95	411.50	383.03	351.17	329.12	303.12	282.33	261.17
570.18	540.99	504.98	459.00	436.95	411.50	383.03	351.17	329.12	303.12	282.33	261.17
570.18	541.35	505.29	458.99	436.15	411.19	383.21	351.25	329.21	303.21	282.33	261.17

Response = 0.2

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167	0.00193	0.00225	0.00267	0.00317
1750.	1500.	1250.	1000.	900.	800.	700.	600.	500.	400.	300.	200.
219.	219.	208.	200.	198.	190.	189.	176.	189.	190.	189.	176.
287.38	283.39	257.97	248.00	242.96	235.25	225.63	212.59	200.00	187.50	176.00	165.00
291.50	283.78	273.82	262.93	253.33	244.96	234.64	221.57	210.00	198.00	187.50	176.00
297.16	288.88	278.00	267.96	258.34	249.93	239.64	226.59	215.00	203.00	192.50	182.50
295.07	286.96	276.95	267.00	257.63	248.84	239.64	226.59	215.00	203.00	192.50	182.50
295.18	287.01	276.96	267.00	257.63	248.84	239.64	226.59	215.00	203.00	192.50	182.50
294.70	286.71	276.22	266.93	257.39	248.66	239.46	226.41	214.86	202.86	192.36	181.86
294.70	286.66	276.08	266.93	257.31	248.58	239.38	226.33	214.78	202.78	192.28	181.78
294.76	286.74	276.31	267.00	257.39	248.66	239.46	226.41	214.86	202.86	192.36	181.86
294.91	286.86	276.43	267.11	257.47	248.73	239.52	226.47	214.92	202.92	192.42	181.92
294.91	286.91	276.43	267.11	257.47	248.73	239.52	226.47	214.92	202.92	192.42	181.92

(Continued)

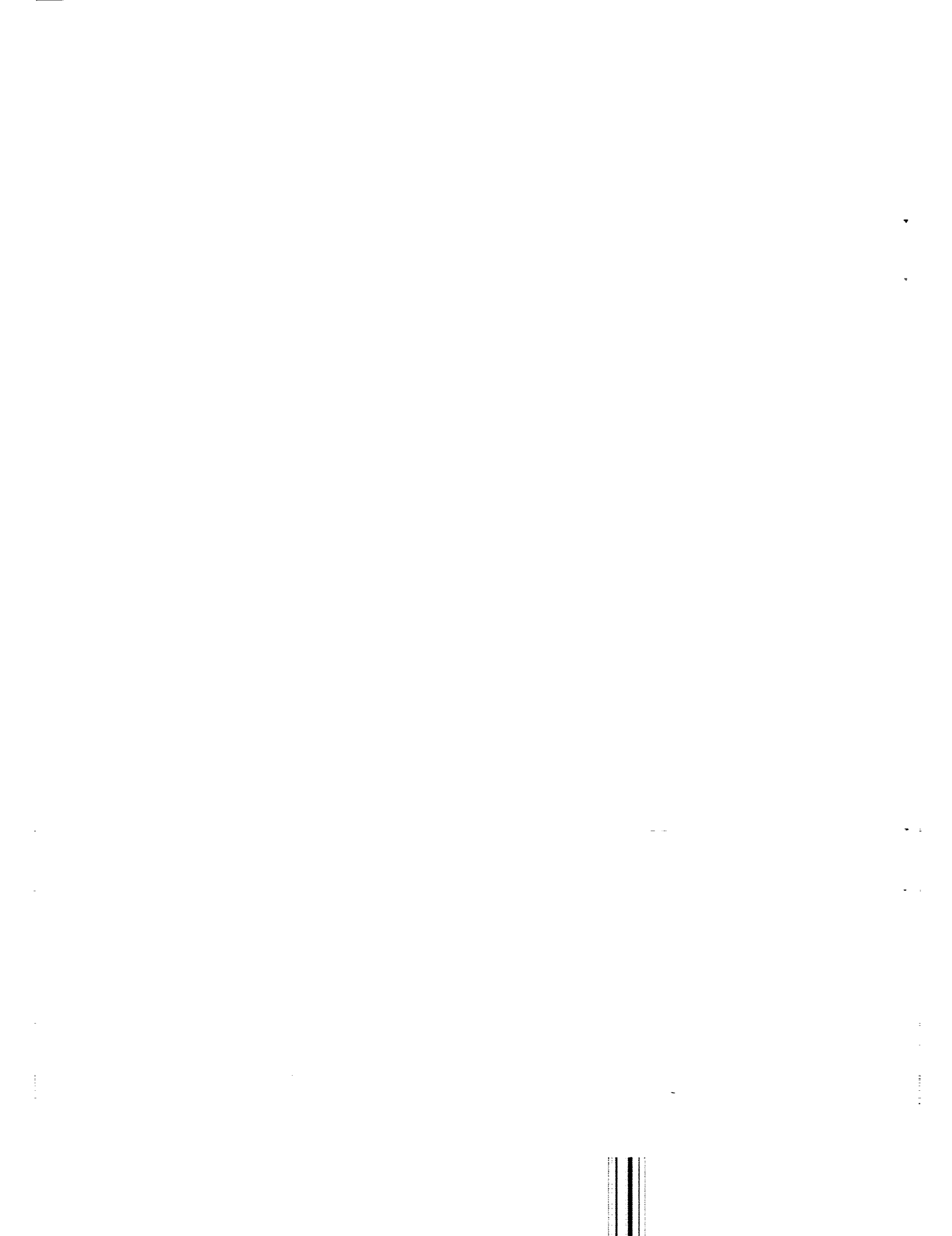
Table 11 - $\Delta f = 0.00400$ (Continued)

Response = 0.8

CUTOFF FREQ. (1/M)	(1/M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00200	0.00200	5	475.66	390.70	0.00333	0.00400	0.00500	0.00667	0.01000
0.00400	0.00400	10	312.44	271.69	0.00733	0.00800	0.00900	0.01067	0.01400
500.	500.	15	311.99	270.92	300.	250.	200.	150.	100.
167.	167.	20	315.11	271.33	136.	125.	111.	94.	71.
		25	319.32	271.42					
		30	319.06	271.87					
		35	319.56	271.87					
		40	319.56	271.64					
		45	319.38	271.69					
		50	319.32	271.69					

Response = 0.2

CUTOFF FREQ. (1/M)	(1/M)	N	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH	WAVELENGTH
0.00200	0.00200	5	194.85	173.07	0.00333	0.00400	0.00500	0.00667	0.01000
0.00400	0.00400	10	205.04	185.44	0.00733	0.00800	0.00900	0.01067	0.01400
500.	500.	15	208.17	188.55	300.	250.	200.	150.	100.
167.	167.	20	207.88	188.05	136.	125.	111.	94.	71.
		25	207.59	188.03					
		30	207.46	187.99					
		35	207.41	187.92					
		40	207.48	187.97					
		45	207.51	188.01					
		50	207.51	188.01					



Appendix C

TABLES OF THE RMS DIFFERENCE
BETWEEN THE GAIN AND RESPONSE FUNCTIONS

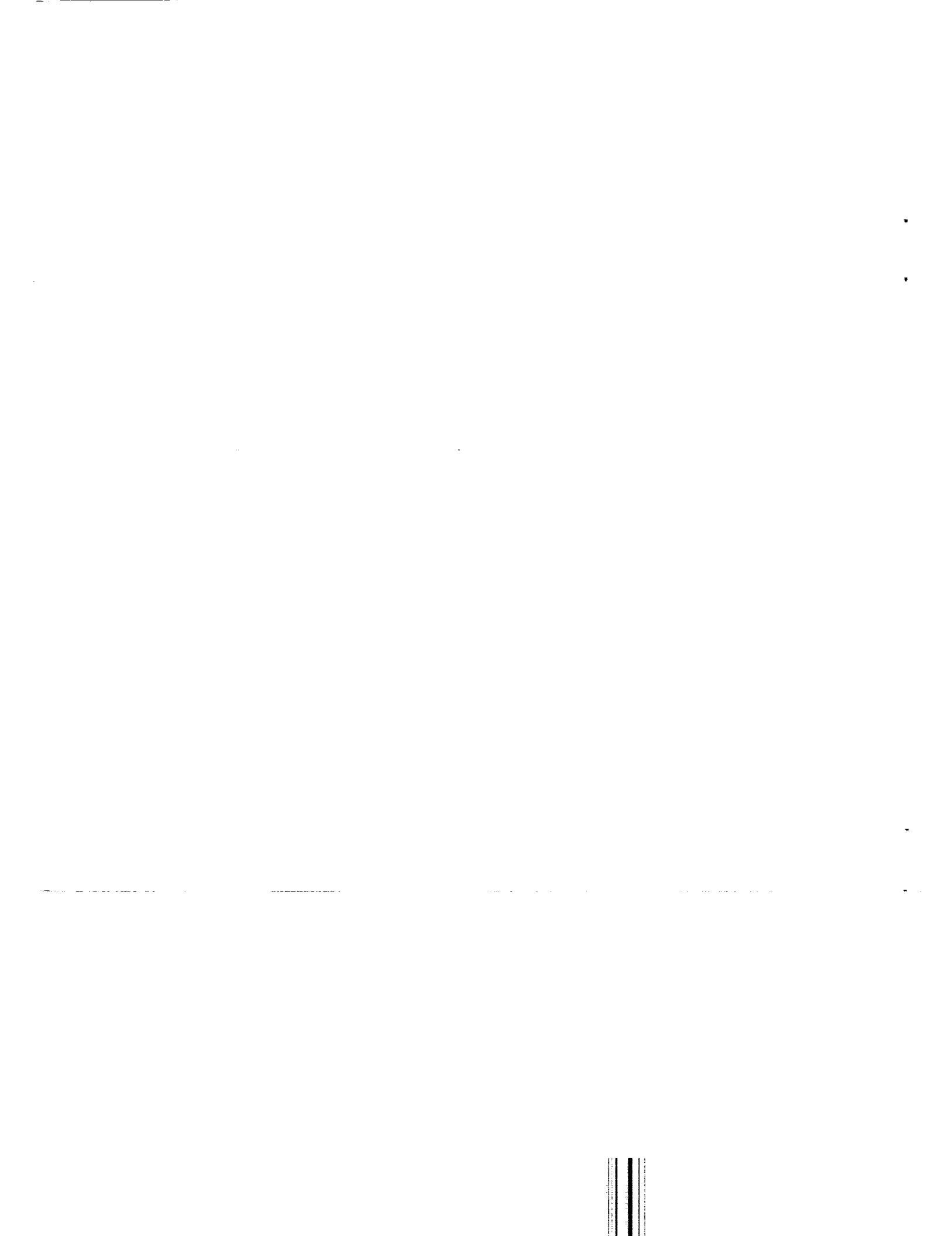


Table 1 - $\Delta f = 0.00030$

CUTOFF FREQ. (1/M)	0.00011	0.00013	0.00021	0.00025	0.00033	0.00040	0.00050	0.00058
TERMIN FREQ. (1/M)	0.00040	0.00043	0.00050	0.00055	0.00063	0.00070	0.00080	0.00088
CUTOFF AAVL (1)	1000.	7500.	5000.	4000.	3000.	2500.	2000.	2000.
TERMIN AAVL (1)	2510.	2308.	2000.	1816.	1579.	1499.	1240.	1240.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	0.33943	0.30536	0.29927	0.29491	0.28500	0.27768	0.26771	0.26771
5	0.21473	0.19946	0.19084	0.18338	0.17047	0.16144	0.14479	0.14479
10	0.14956	0.14575	0.13464	0.12596	0.11068	0.10144	0.08448	0.08448
15	0.11391	0.11130	0.09900	0.09864	0.07307	0.06444	0.05753	0.05753
20	0.11511	0.09433	0.07197	0.06299	0.05026	0.04489	0.03971	0.03971
25	0.07726	0.06436	0.05197	0.04634	0.03999	0.04432	0.03190	0.03190
30	0.08272	0.04382	0.03851	0.03759	0.03818	0.04692	0.04989	0.04989
35	0.07051	0.03701	0.03164	0.03486	0.03860	0.04457	0.04921	0.04921
40	0.06006	0.03254	0.02751	0.03487	0.03806	0.04177	0.04713	0.04713
45	0.05100	0.02867	0.02251	0.03487	0.03806	0.04177	0.04713	0.04713
50	0.04510	0.02366	0.02714	0.03529	0.03978	0.04502	0.05087	0.05087
CUTOFF FREQ. (1/M)	0.00067	0.00069	0.00100	0.00111	0.00125	0.00133	0.00167	0.00167
TERMIN FREQ. (1/M)	0.00087	0.00110	0.00130	0.00141	0.00155	0.00173	0.00197	0.00197
CUTOFF AAVL (1)	1530.	1250.	1000.	900.	800.	700.	600.	600.
TERMIN AAVL (1)	1034.	909.	749.	709.	645.	579.	508.	508.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	0.25032	0.23381	0.21501	0.20418	0.19113	0.17416	0.15773	0.15773
5	0.24645	0.19946	0.09544	0.09156	0.09196	0.09416	0.10423	0.10423
10	0.13773	0.07621	0.07037	0.06840	0.07070	0.07078	0.06600	0.06600
15	0.0819	0.07637	0.07871	0.07401	0.06859	0.06142	0.06088	0.06088
20	0.05914	0.06117	0.07583	0.07197	0.06859	0.06231	0.06108	0.06108
25	0.05949	0.06191	0.05867	0.05179	0.05519	0.04231	0.04987	0.04987
30	0.05764	0.04973	0.04649	0.05156	0.05589	0.04499	0.04444	0.04444
35	0.05105	0.04377	0.04675	0.04707	0.04177	0.04041	0.03646	0.03646
40	0.04019	0.03930	0.04459	0.03449	0.03759	0.03948	0.03726	0.03726
45	0.03234	0.03315	0.03057	0.03291	0.03677	0.03920	0.03726	0.03726
50	0.03168	0.03406	0.02973	0.03193	0.02855	0.03031	0.02947	0.02947
CUTOFF FREQ. (1/M)	0.00260	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000	0.01000
TERMIN FREQ. (1/M)	0.00280	0.00533	0.00430	0.00530	0.00697	0.00830	0.01030	0.01030
CUTOFF AAVL (1)	500.	300.	250.	200.	150.	124.	100.	100.
TERMIN AAVL (1)	355.	275.	233.	189.	144.	120.	97.	97.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	0.14027	0.15393	0.16555	0.15202	0.15333	0.14018	0.14354	0.14354
5	0.11589	0.10266	0.11223	0.09758	0.09914	0.10439	0.10125	0.10125
10	0.08405	0.07662	0.06387	0.06325	0.08195	0.07941	0.08009	0.08009
15	0.07813	0.06633	0.06759	0.06703	0.06767	0.06453	0.06459	0.06459
20	0.07844	0.05533	0.05601	0.05379	0.05513	0.05497	0.05483	0.05483
25	0.05805	0.04794	0.04749	0.04784	0.04875	0.04597	0.04419	0.04419
30	0.05273	0.04437	0.04066	0.04272	0.04404	0.04341	0.04371	0.04371
35	0.04345	0.04222	0.03509	0.03615	0.03792	0.03946	0.03754	0.03754
40	0.03974	0.03654	0.03509	0.03544	0.03357	0.03477	0.03471	0.03471
45	0.03515	0.03340	0.03029	0.03154	0.03357	0.03477	0.03471	0.03471
50	0.03107	0.02485	0.02639	0.02897	0.03111	0.02962	0.02923	0.02923

Table 2 - $\Delta f = 0.00050$

CUTOFF FREQ. (1/4) -	U+00010	U+00013	U+00020	U+00025	U+00033	U+00040	U+00050	U+0005n
TERMIN FREQ. (1/4) -	0.00063	0.00063	0.00070	0.00075	0.00083	0.00090	0.00100	0.0010n
CUTOFF BAVL. (n) -	7500.	7500.	5000.	4000.	3000.	2500.	2000.	2000.
TERMIN BAVL. (n) -	1570.	1570.	1420.	1330.	1200.	1110.	1000.	1000.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	U+00010	0.29290	U+00011	U+28008	U+27217	U+26426	U+25635	U+24844
5	U+00010	0.18160	U+17144	U+16413	U+15721	U+15029	U+14337	U+13645
10	U+1265	0.12339	U+11171	U+10478	U+09774	U+09070	U+08366	U+07662
15	U+11265	0.08491	U+07762	U+06909	U+06056	U+05203	U+04350	U+03497
20	U+08710	U+05741	U+04684	U+03627	U+02570	U+01513	U+00456	U+00400
25	U+06876	U+03782	U+02725	U+01668	U+00611	U+00154	U+00097	U+00040
30	U+05047	U+02518	U+01461	U+00404	U+00147	U+00090	U+00033	U+00076
35	U+03213	U+01251	U+00194	U+00137	U+00080	U+00023	U+00066	U+00109
40	U+01378	U+00087	U+00030	U+00073	U+00116	U+00159	U+00202	U+00245
45	U+00543	U+00042	U+00085	U+01228	U+02467	U+03706	U+04945	U+06184
50	U+00108	U+00070	U+00113	U+00156	U+00199	U+00242	U+00285	U+00328
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	U+00010	0.20429	U+00011	U+19144	U+17816	U+16488	U+15160	U+13832
5	U+00010	0.08501	U+08410	U+08122	U+07834	U+07546	U+07258	U+06970
10	U+06876	U+06686	U+06398	U+06110	U+05822	U+05534	U+05246	U+04958
15	U+05047	U+04856	U+04568	U+04280	U+03992	U+03704	U+03416	U+03128
20	U+03213	U+02925	U+02637	U+02349	U+02061	U+01773	U+01485	U+01197
25	U+01378	U+01090	U+00802	U+00514	U+00226	U+00169	U+01000	U+00143
30	U+00543	U+00255	U+00198	U+00141	U+00084	U+00027	U+00070	U+00113
35	U+00108	U+00070	U+00113	U+00156	U+00199	U+00242	U+00285	U+00328
40	U+00070	U+00113	U+00156	U+00199	U+00242	U+00285	U+00328	U+00371
45	U+00137	U+00180	U+00223	U+00266	U+00309	U+00352	U+00395	U+00438
50	U+00202	U+00245	U+00288	U+00331	U+00374	U+00417	U+00460	U+00503
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	U+00010	0.15140	U+00011	U+14454	U+13667	U+12880	U+12093	U+11306
5	U+00010	0.09944	U+09183	U+08422	U+07661	U+06900	U+06139	U+05378
10	U+07662	U+06901	U+06140	U+05379	U+04618	U+03857	U+03096	U+02335
15	U+05828	U+05067	U+04306	U+03545	U+02784	U+02023	U+01262	U+00501
20	U+04000	U+03239	U+02478	U+01717	U+00956	U+00195	U+00434	U+00673
25	U+02171	U+01410	U+00649	U+00188	U+00427	U+00666	U+00905	U+01144
30	U+00342	U+00181	U+00420	U+00659	U+00898	U+01137	U+01376	U+01615
35	U+00108	U+00070	U+00113	U+00156	U+00199	U+00242	U+00285	U+00328
40	U+00070	U+00113	U+00156	U+00199	U+00242	U+00285	U+00328	U+00371
45	U+00137	U+00180	U+00223	U+00266	U+00309	U+00352	U+00395	U+00438
50	U+00202	U+00245	U+00288	U+00331	U+00374	U+00417	U+00460	U+00503
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
4	U+00010	0.00400	U+00011	U+00050	U+00067	U+00080	U+00100	U+01000
5	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
10	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
15	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
20	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
25	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
30	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
35	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
40	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
45	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150
50	U+00010	U+00040	U+00050	U+00067	U+00080	U+00100	U+00125	U+00150

Table 3 - $\Delta f = 0.00075$

CUTOFF FREQ. (1/M)	0.00000	0.00013	0.00026	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M)	0.00075	0.00088	0.00094	0.00100	0.00108	0.00115	0.00125
CUTOFF BAVL. (M)	1333.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN BAVL. (M)	1333.	1132.	1053.	1000.	923.	870.	800.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.29154	0.27640	0.26889	0.26825	0.25520	0.24816	0.23728
10	0.17677	0.15614	0.14910	0.14902	0.12859	0.11902	0.10439
15	0.11947	0.09537	0.08404	0.07842	0.06493	0.05892	0.05217
20	0.06761	0.04537	0.03356	0.03028	0.02363	0.01843	0.01464
25	0.05294	0.03014	0.02254	0.02132	0.01321	0.01077	0.00839
30	0.03277	0.01443	0.01224	0.01272	0.00331	0.00354	0.00301
35	0.01672	0.00649	0.00549	0.00564	0.00272	0.00246	0.00204
40	0.00949	0.00339	0.00289	0.00264	0.00186	0.00145	0.00121
45	0.00460	0.00144	0.00124	0.01141	0.00094	0.00081	0.00070
50	0.00347	0.00121	0.01068	0.00803	0.00432	0.00411	0.00170
CUTOFF FREQ. (1/M)	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00137	0.00155	0.00174	0.00186	0.00200	0.00218	0.00232
CUTOFF BAVL. (M)	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN BAVL. (M)	766.	645.	571.	537.	500.	450.	419.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.29577	0.20555	0.18547	0.17486	0.16253	0.14829	0.13336
10	0.09179	0.07920	0.07481	0.07702	0.06242	0.05954	0.05805
15	0.05107	0.04210	0.04194	0.04458	0.03390	0.03471	0.03595
20	0.04494	0.05744	0.05084	0.04504	0.04165	0.04713	0.05493
25	0.04525	0.03538	0.03194	0.03751	0.04279	0.04016	0.03903
30	0.02947	0.02457	0.03341	0.03223	0.02847	0.02418	0.02097
35	0.01641	0.02571	0.02079	0.01747	0.02091	0.02345	0.01788
40	0.01405	0.01743	0.01331	0.01701	0.01738	0.01927	0.01494
45	0.01516	0.00882	0.01342	0.01205	0.00929	0.01245	0.00938
50	0.00965	0.00626	0.00777	0.00655	0.00494	0.00447	0.00403
CUTOFF FREQ. (1/M)	0.00200	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M)	0.00275	0.00400	0.00475	0.00575	0.00742	0.00875	0.01075
CUTOFF BAVL. (M)	500.	300.	250.	200.	150.	125.	100.
TERMIN BAVL. (M)	344.	300.	211.	174.	135.	114.	93.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.12130	0.12444	0.15574	0.13506	0.14781	0.14559	0.13579
10	0.06075	0.08521	0.09114	0.08544	0.08271	0.08478	0.08819
15	0.04215	0.02708	0.04279	0.04665	0.04041	0.03945	0.04421
20	0.02715	0.04673	0.04452	0.04400	0.04475	0.04345	0.04931
25	0.03143	0.02305	0.02322	0.03432	0.03558	0.03275	0.03625
30	0.02420	0.02715	0.02453	0.02745	0.02512	0.02509	0.02548
35	0.02277	0.01834	0.01887	0.01842	0.01877	0.01925	0.01894
40	0.01470	0.01444	0.01442	0.01445	0.01490	0.01458	0.01474
45	0.01049	0.00960	0.01094	0.01049	0.01073	0.01074	0.00974
50	0.00664	0.00639	0.00796	0.00680	0.00712	0.00742	0.00758

Table 4 - $\Delta f = 0.00100$

CUTOFF FREQ. (1/4)	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/4)	0.00010	0.00011	0.00012	0.000125	0.000133	0.000140	0.000150
CUTOFF WAVL. (M)	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	7000.	882.	833.	800.	750.	714.	647.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.27424	0.25273	0.24728	0.24728	0.23830	0.23101	0.22824
10	0.15494	0.13473	0.11760	0.11760	0.10617	0.09750	0.09401
15	0.09162	0.06917	0.05304	0.05304	0.04535	0.04221	0.04278
20	0.05172	0.03156	0.02656	0.02656	0.03073	0.03475	0.04278
25	0.02584	0.01631	0.02092	0.02526	0.03118	0.03197	0.03431
30	0.01667	0.01581	0.02108	0.02384	0.02874	0.02313	0.01779
35	0.00536	0.01482	0.01703	0.01696	0.01395	0.01036	0.00809
40	0.00490	0.01104	0.01069	0.00907	0.00509	0.00454	0.00498
45	0.00333	0.00670	0.00524	0.00349	0.00260	0.00274	0.00428
50	0.00784	0.00374	0.00251	0.00142	0.00255	0.00348	0.00307
CUTOFF FREQ. (1/4)	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/4)	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
CUTOFF WAVL. (M)	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	634.	554.	500.	474.	444.	412.	375.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.21255	0.18871	0.16901	0.15489	0.14719	0.13472	0.12136
10	0.07901	0.06660	0.06859	0.07313	0.07984	0.08730	0.09459
15	0.04599	0.03945	0.03572	0.04537	0.05134	0.05308	0.04744
20	0.02728	0.02473	0.03151	0.03176	0.03451	0.04242	0.04549
25	0.02328	0.02102	0.02746	0.03172	0.03194	0.03474	0.02275
30	0.01415	0.01407	0.02196	0.01791	0.01430	0.01831	0.01962
35	0.01602	0.01445	0.00894	0.01057	0.01385	0.01180	0.01082
40	0.01011	0.00849	0.00841	0.00897	0.00626	0.00701	0.00763
45	0.01541	0.00322	0.00491	0.00300	0.00442	0.00457	0.00420
50	0.00703	0.00705	0.00184	0.00265	0.00262	0.00703	0.00744
CUTOFF FREQ. (1/4)	0.00230	0.00333	0.00400	0.00500	0.00667	0.00840	0.01000
TERMIN FREQ. (1/4)	0.00230	0.00433	0.00500	0.00600	0.00767	0.00900	0.01100
CUTOFF WAVL. (M)	500.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M)	334.	231.	200.	167.	130.	111.	91.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.11344	0.14579	0.14932	0.14586	0.14953	0.13492	0.13199
10	0.08652	0.07013	0.08308	0.07994	0.07807	0.07419	0.07420
15	0.05208	0.05435	0.05104	0.05424	0.04964	0.04938	0.05423
20	0.03326	0.03057	0.03362	0.03372	0.03649	0.03415	0.03491
25	0.02917	0.02539	0.02345	0.02421	0.02421	0.02424	0.02419
30	0.01524	0.01645	0.01667	0.01664	0.01692	0.01714	0.01714
35	0.01119	0.01034	0.01164	0.01020	0.00998	0.01129	0.00978
40	0.00604	0.00747	0.00747	0.00732	0.00809	0.00848	0.00877
45	0.00340	0.00335	0.00425	0.00459	0.00509	0.00377	0.00392
50	0.00271	0.00190	0.00225	0.00229	0.00233	0.00203	0.00211

Table 5 - $\Delta f = 0.00125$

CUTOFF FREQ. (1/M) =	0.00000	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M) =	1MFIN	7500.	0.00145	0.00150	0.00156	0.00165	0.00175
CUTOFF WAVL. (M) =	800.	723.	690.	667.	632.	2600.	2000.
TERMIN WAVL. (M) =						806.	571.
N	5						RMS
10	0.25753	0.23301	0.23575	0.23020	0.22115	0.21393	0.20311
15	0.13162	0.11871	0.10240	0.09501	0.08498	0.07742	0.06786
20	0.06615	0.04637	0.03899	0.03315	0.02863	0.02408	0.02039
25	0.02826	0.01741	0.01979	0.02395	0.02975	0.03398	0.03776
30	0.00890	0.01508	0.02007	0.02504	0.02987	0.03283	0.03463
35	0.00442	0.01344	0.01526	0.01591	0.01341	0.01056	0.00859
40	0.00394	0.00947	0.00814	0.00705	0.00509	0.00277	0.00232
45	0.00227	0.00431	0.00347	0.00283	0.00164	0.00256	0.00379
50	0.00196	0.00273	0.00270	0.00252	0.00150	0.00190	0.00222
	0.00141	0.00268	0.00266	0.00229	0.00155	0.00185	0.00216
N	5						RMS
10	0.17194	0.17194	0.15297	0.14332	0.13251	0.12099	0.11079
15	0.06265	0.05814	0.05291	0.04702	0.04039	0.03399	0.02865
20	0.03053	0.02559	0.02308	0.02077	0.01792	0.01491	0.01236
25	0.01807	0.01460	0.01366	0.01210	0.01090	0.00941	0.00792
30	0.00717	0.01088	0.01044	0.00749	0.00506	0.00252	0.00250
35	0.00715	0.00782	0.00449	0.00354	0.00272	0.00236	0.00235
40	0.00382	0.00276	0.00349	0.00285	0.00200	0.00222	0.00219
45	0.00221	0.00172	0.00167	0.00167	0.00187	0.00177	0.00185
50	0.00216	0.00170	0.00160	0.00166	0.00163	0.00172	0.00182
N	5						RMS
10	0.10716	0.11877	0.14248	0.17000	0.20000	0.25000	0.30000
15	0.07923	0.06413	0.07186	0.07871	0.08467	0.08925	0.09125
20	0.05340	0.04600	0.04072	0.03545	0.03085	0.02679	0.02291
25	0.02939	0.0251	0.02243	0.01937	0.01727	0.01507	0.01307
30	0.01913	0.01907	0.01725	0.01437	0.01227	0.01011	0.00892
35	0.01129	0.00856	0.00843	0.00693	0.00510	0.00376	0.00296
40	0.00904	0.00449	0.00566	0.00532	0.00433	0.00350	0.00277
45	0.00308	0.00292	0.00248	0.00219	0.00174	0.00146	0.00121
50	0.00174	0.00168	0.00164	0.00169	0.00174	0.00181	0.00186
	0.00174	0.00168	0.00166	0.00166	0.00177	0.00185	0.00196

Table 6 - $\Delta f = 0.00150$

CUTOFF FREQ. (1/M) -	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M) -	0.00150	0.00160	0.00163	0.00170	0.00175	0.00183	0.00190	0.00200
CUTOFF WAVL. (M) -	1M	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M) -	667.	625.	612.	588.	571.	545.	526.	500.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.22067	0.22865	0.22800	0.21844	0.21315	0.20405	0.19680	0.18610
10	0.10710	0.09972	0.09704	0.06133	0.07516	0.06594	0.05974	0.05303
15	0.06392	0.03151	0.02850	0.02988	0.02956	0.02769	0.03190	0.03855
20	0.01222	0.01194	0.01928	0.01940	0.02287	0.02722	0.02924	0.02770
25	0.00484	0.01170	0.01347	0.01588	0.01468	0.01619	0.01994	0.01038
30	0.00401	0.00728	0.00783	0.00797	0.00733	0.00520	0.00324	0.00318
35	0.00191	0.00331	0.00363	0.00362	0.00321	0.00218	0.00186	0.00264
40	0.00164	0.00259	0.00298	0.00315	0.00292	0.00217	0.00174	0.00208
45	0.00121	0.00274	0.00307	0.00305	0.00266	0.00174	0.00163	0.00224
50	0.00079	0.00262	0.00273	0.00226	0.00163	0.00115	0.00172	0.00219
CUTOFF FREQ. (1/M) -	0.00057	0.00067	0.00060	0.00100	0.00111	0.00125	0.00193	0.00167
TERMIN FREQ. (1/M) -	0.00207	0.00217	0.00230	0.00250	0.00261	0.00275	0.00293	0.00317
CUTOFF WAVL. (M) -	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M) -	483.	462.	435.	400.	383.	364.	341.	316.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.17857	0.16877	0.15561	0.13746	0.12553	0.11878	0.10901	0.10161
10	0.05043	0.04987	0.05360	0.04360	0.04522	0.07487	0.07895	0.07808
15	0.04268	0.04672	0.04560	0.04560	0.04095	0.03452	0.03075	0.03749
20	0.02834	0.02474	0.01843	0.01714	0.02154	0.02632	0.02728	0.02080
25	0.00766	0.00735	0.01193	0.01531	0.01373	0.00988	0.00848	0.01324
30	0.00502	0.00715	0.00715	0.00366	0.00362	0.00588	0.00642	0.00358
35	0.00310	0.00310	0.00216	0.00244	0.00268	0.00261	0.00194	0.00274
40	0.00231	0.00235	0.00195	0.00201	0.00210	0.00195	0.00190	0.00197
45	0.00244	0.00222	0.00149	0.00216	0.00201	0.00170	0.00201	0.00174
50	0.00189	0.00128	0.00167	0.00154	0.00128	0.00175	0.00134	0.00172
CUTOFF FREQ. (1/M) -	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M) -	0.00350	0.00400	0.00463	0.00550	0.00650	0.00817	0.00950	0.01150
CUTOFF WAVL. (M) -	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M) -	266.	250.	207.	182.	154.	124.	105.	87.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.10206	0.11687	0.13646	0.13433	0.10874	0.13488	0.11903	0.12494
10	0.08730	0.09711	0.07875	0.06132	0.04935	0.06570	0.05821	0.05759
15	0.04650	0.03456	0.03222	0.03290	0.03522	0.03409	0.03445	0.03646
20	0.01899	0.02308	0.02397	0.02024	0.02074	0.01803	0.02100	0.02118
25	0.01007	0.01306	0.01232	0.01195	0.01093	0.00967	0.01119	0.00906
30	0.00624	0.00544	0.00544	0.00544	0.00417	0.00487	0.00467	0.00490
35	0.00205	0.00197	0.00224	0.00224	0.00239	0.00222	0.00205	0.00228
40	0.00193	0.00188	0.00188	0.00189	0.00189	0.00198	0.00188	0.00188
45	0.00189	0.00181	0.00181	0.00178	0.00186	0.00178	0.00178	0.00174
50	0.00158	0.00158	0.00147	0.00150	0.00134	0.00133	0.00134	0.00134

Table 7 - $\Delta f = 0.00175$

CUTOFF FREQ. (1/M) =	0.00000	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/M) =	0.00175	0.00185	0.00188	0.00195	0.00200	0.00208	0.00215	0.00225
CUTOFF WAVL. (M) =	INFIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M) =	571.	541.	531.	513.	500.	490.	485.	479.
	N	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.22365	0.21259	0.20690	0.20157	0.19608	0.19020	0.17986	0.16920
10	0.08775	0.07430	0.07009	0.06226	0.05597	0.04962	0.04590	0.04229
15	0.02800	0.01806	0.01727	0.01667	0.01613	0.01562	0.01519	0.01480
20	0.00553	0.01201	0.01122	0.01079	0.01035	0.01000	0.00965	0.00930
25	0.00444	0.00828	0.00794	0.00779	0.00769	0.00764	0.00760	0.00757
30	0.00201	0.00432	0.00401	0.00396	0.00391	0.00389	0.00387	0.00386
35	0.00171	0.00259	0.00262	0.00261	0.00260	0.00259	0.00258	0.00257
40	0.00104	0.00279	0.00279	0.00279	0.00279	0.00279	0.00279	0.00279
45	0.00080	0.00254	0.00254	0.00254	0.00254	0.00254	0.00254	0.00254
50	0.00062	0.00154	0.00152	0.00152	0.00152	0.00152	0.00152	0.00152
CUTOFF FREQ. (1/M) =	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M) =	0.00232	0.00242	0.00255	0.00275	0.00286	0.00300	0.00318	0.00342
CUTOFF WAVL. (M) =	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M) =	431.	414.	372.	364.	350.	333.	319.	292.
	N	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.16193	0.15239	0.13970	0.12269	0.11455	0.10607	0.09832	0.09407
10	0.04249	0.04520	0.05149	0.04220	0.04590	0.07234	0.06827	0.06827
15	0.03932	0.04111	0.04044	0.03775	0.02872	0.02415	0.02649	0.03442
20	0.01781	0.01382	0.00786	0.01962	0.01918	0.02017	0.01812	0.01189
25	0.00325	0.00542	0.00834	0.00836	0.00837	0.00705	0.00586	0.00809
30	0.00272	0.00331	0.00317	0.00203	0.00230	0.00279	0.00279	0.00212
35	0.00214	0.00252	0.00247	0.00200	0.00207	0.00228	0.00212	0.00208
40	0.00244	0.00257	0.00194	0.00195	0.00227	0.00205	0.00172	0.00215
45	0.00198	0.00135	0.00117	0.00173	0.00122	0.00127	0.00141	0.00122
50	0.00081	0.00066	0.00107	0.00063	0.00086	0.00075	0.00066	0.00086
CUTOFF FREQ. (1/M) =	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M) =	0.00375	0.00425	0.00508	0.00575	0.00675	0.00842	0.00975	0.01175
CUTOFF WAVL. (M) =	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (M) =	247.	235.	197.	174.	148.	119.	103.	85.
	N	RMS	RMS	RMS	RMS	RMS	RMS	RMS
5	0.09834	0.11328	0.13380	0.12598	0.10139	0.13223	0.11016	0.12119
10	0.05563	0.05250	0.06637	0.05186	0.06257	0.06066	0.05109	0.05190
15	0.03799	0.02544	0.03395	0.02747	0.02448	0.02890	0.02917	0.02759
20	0.01544	0.01434	0.01415	0.01571	0.01561	0.01451	0.01534	0.01517
25	0.00443	0.00731	0.00648	0.00695	0.00527	0.00679	0.00593	0.00555
30	0.00285	0.00274	0.00272	0.00272	0.00271	0.00277	0.00276	0.00278
35	0.00211	0.00211	0.00202	0.00202	0.00202	0.00202	0.00201	0.00205
40	0.00192	0.00190	0.00190	0.00190	0.00185	0.00186	0.00183	0.00186
45	0.00120	0.00116	0.00115	0.00139	0.00128	0.00127	0.00120	0.00120
50	0.00075	0.00077	0.00068	0.00078	0.00074	0.00082	0.00070	0.00075

Table 8 - $\Delta f = 0.00200$

CUTOFF FREQ. (1/M)	RMS	0.00013	0.00025	0.00033	0.00140	0.00051
TERMIN FREQ. (1/M)	RMS	0.00013	0.00025	0.00033	0.00140	0.00051
CUTOFF WAVL. (M)		7500.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)		489.	444.	429.	417.	400.
	RMS					
4	0.18191	0.17916	0.17020	0.16315	0.15281	0.15281
5	0.04227	0.04570	0.03687	0.03519	0.03410	0.03410
10	0.01370	0.01800	0.02137	0.02956	0.03772	0.03772
15	0.01204	0.01399	0.01492	0.01917	0.01144	0.01144
20	0.00777	0.00819	0.00833	0.00836	0.00820	0.00820
25	0.00799	0.00756	0.00736	0.00786	0.00717	0.00717
30	0.00751	0.00735	0.00721	0.00721	0.00716	0.00716
35	0.00713	0.00731	0.00718	0.00708	0.00701	0.00701
40	0.00689	0.00731	0.00718	0.00708	0.00701	0.00701
45	0.00660	0.00717	0.00694	0.00693	0.00684	0.00684
50	0.00651	0.00704	0.00659	0.00673	0.00684	0.00684
	RMS					
4	0.00080	0.00100	0.00125	0.00143	0.00167	0.00167
5	0.00240	0.00300	0.00325	0.00343	0.00367	0.00367
10	1250.	1000.	800.	700.	600.	600.
15	357.	333.	308.	292.	273.	273.
	RMS					
4	0.12443	0.10674	0.09464	0.08919	0.08812	0.08812
5	0.05045	0.06074	0.05338	0.04834	0.05745	0.05745
10	0.03065	0.02770	0.02782	0.02311	0.03024	0.03024
15	0.00832	0.01187	0.01345	0.01076	0.00444	0.00444
20	0.00461	0.00397	0.00285	0.00370	0.00405	0.00405
25	0.00273	0.00243	0.00220	0.00242	0.00274	0.00274
30	0.00265	0.00177	0.00242	0.00217	0.00193	0.00193
35	0.00163	0.00171	0.00117	0.00181	0.00192	0.00192
40	0.00085	0.00083	0.00084	0.00078	0.00082	0.00082
45	0.00065	0.00064	0.00066	0.00063	0.00066	0.00066
50	0.00061	0.00064	0.00064	0.00063	0.00066	0.00066
	RMS					
4	0.00250	0.00350	0.00667	0.00880	0.01000	0.01000
5	0.00450	0.00600	0.00867	0.01000	0.01200	0.01200
10	410.	230.	150.	125.	100.	100.
15	222.	167.	115.	100.	83.	83.
	RMS					
4	0.12440	0.11722	0.12898	0.10146	0.11729	0.11729
5	0.04950	0.04397	0.05571	0.04537	0.04450	0.04450
10	0.02549	0.02350	0.02438	0.02441	0.02401	0.02401
15	0.00939	0.01115	0.00891	0.01005	0.00954	0.00954
20	0.00297	0.00339	0.00275	0.00281	0.00327	0.00327
25	0.00222	0.00220	0.00218	0.00218	0.00217	0.00217
30	0.00187	0.00204	0.00184	0.00199	0.00183	0.00183
35	0.00152	0.00144	0.00140	0.00142	0.00136	0.00136
40	0.00071	0.00074	0.00067	0.00067	0.00070	0.00070
45	0.00067	0.00074	0.00070	0.00067	0.00070	0.00070
50	0.00064	0.00063	0.00063	0.00062	0.00067	0.00067

Table 9 - $\Delta f = 0.00250$

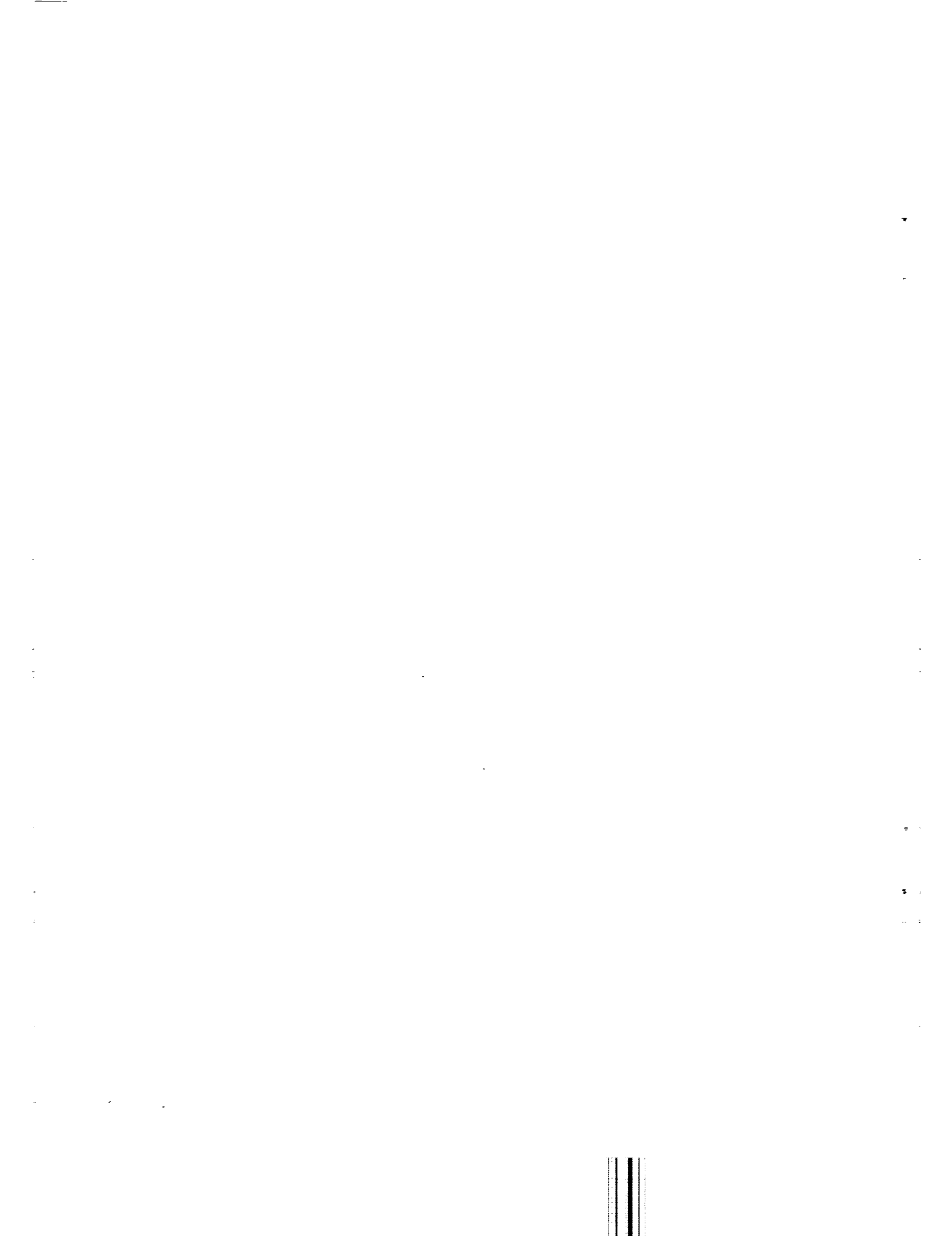
CUTOFF FREQ. (1/3) =	0.00010	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN WAVL. (1/3) =	0.00279	0.00263	0.00271	0.00275	0.00283	0.00290	0.00300
CUTOFF WAVL. (1/3) =	1000.	750.	500.	400.	300.	250.	200.
TERMIN WAVL. (1/3) =	400.	300.	370.	344.	353.	345.	333.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.17301	0.15193	0.14619	0.14619	0.13741	0.13095	0.12173
2	0.03560	0.02261	0.02255	0.02255	0.02240	0.02234	0.02232
3	0.00828	0.01170	0.01792	0.01792	0.01983	0.02056	0.02037
4	0.00297	0.00479	0.00544	0.00544	0.00549	0.00549	0.00548
5	0.00194	0.00297	0.00372	0.00372	0.00409	0.00413	0.00413
6	0.00094	0.00111	0.00139	0.00139	0.00152	0.00153	0.00154
7	0.00075	0.00100	0.00148	0.00148	0.00168	0.00168	0.00172
8	0.00045	0.00119	0.00119	0.00119	0.00107	0.00107	0.00102
9	0.00036	0.00132	0.00079	0.00079	0.00051	0.00045	0.00044
10	0.00032	0.00084	0.00064	0.00036	0.00043	0.00043	0.00043
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.17301	0.15193	0.14619	0.14619	0.13741	0.13095	0.12173
2	0.03560	0.02261	0.02255	0.02255	0.02240	0.02234	0.02232
3	0.00828	0.01170	0.01792	0.01792	0.01983	0.02056	0.02037
4	0.00297	0.00479	0.00544	0.00544	0.00549	0.00549	0.00548
5	0.00194	0.00297	0.00372	0.00372	0.00409	0.00413	0.00413
6	0.00094	0.00111	0.00139	0.00139	0.00152	0.00153	0.00154
7	0.00075	0.00100	0.00148	0.00148	0.00168	0.00168	0.00172
8	0.00045	0.00119	0.00119	0.00119	0.00107	0.00107	0.00102
9	0.00036	0.00132	0.00079	0.00079	0.00051	0.00045	0.00044
10	0.00032	0.00084	0.00064	0.00036	0.00043	0.00043	0.00043
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.17301	0.15193	0.14619	0.14619	0.13741	0.13095	0.12173
2	0.03560	0.02261	0.02255	0.02255	0.02240	0.02234	0.02232
3	0.00828	0.01170	0.01792	0.01792	0.01983	0.02056	0.02037
4	0.00297	0.00479	0.00544	0.00544	0.00549	0.00549	0.00548
5	0.00194	0.00297	0.00372	0.00372	0.00409	0.00413	0.00413
6	0.00094	0.00111	0.00139	0.00139	0.00152	0.00153	0.00154
7	0.00075	0.00100	0.00148	0.00148	0.00168	0.00168	0.00172
8	0.00045	0.00119	0.00119	0.00119	0.00107	0.00107	0.00102
9	0.00036	0.00132	0.00079	0.00079	0.00051	0.00045	0.00044
10	0.00032	0.00084	0.00064	0.00036	0.00043	0.00043	0.00043

CUTOFF FREQ. (1/3) =	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN WAVL. (1/3) =	0.00317	0.00330	0.00300	0.00281	0.00250	0.00225	0.00207
CUTOFF WAVL. (1/3) =	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (1/3) =	314.	303.	288.	277.	267.	255.	240.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.10659	0.09431	0.08426	0.07949	0.07637	0.07593	0.07674
2	0.03244	0.04764	0.05191	0.05221	0.05056	0.04648	0.03467
3	0.01217	0.01295	0.00812	0.00933	0.01321	0.01749	0.01875
4	0.00227	0.00349	0.00502	0.00502	0.00423	0.00275	0.00324
5	0.00154	0.00277	0.00317	0.00304	0.00289	0.00237	0.00244
6	0.00140	0.00277	0.00207	0.00155	0.00182	0.00203	0.00186
7	0.00093	0.00096	0.00074	0.00124	0.00116	0.00075	0.00118
8	0.00075	0.00072	0.00077	0.00082	0.00073	0.00071	0.00074
9	0.00069	0.00067	0.00083	0.00088	0.00059	0.00077	0.00057
10	0.00045	0.00057	0.00033	0.00044	0.00051	0.00035	0.00046
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.10659	0.09431	0.08426	0.07949	0.07637	0.07593	0.07674
2	0.03244	0.04764	0.05191	0.05221	0.05056	0.04648	0.03467
3	0.01217	0.01295	0.00812	0.00933	0.01321	0.01749	0.01875
4	0.00227	0.00349	0.00502	0.00502	0.00423	0.00275	0.00324
5	0.00154	0.00277	0.00317	0.00304	0.00289	0.00237	0.00244
6	0.00140	0.00277	0.00207	0.00155	0.00182	0.00203	0.00186
7	0.00093	0.00096	0.00074	0.00124	0.00116	0.00075	0.00118
8	0.00075	0.00072	0.00077	0.00082	0.00073	0.00071	0.00074
9	0.00069	0.00067	0.00083	0.00088	0.00059	0.00077	0.00057
10	0.00045	0.00057	0.00033	0.00044	0.00051	0.00035	0.00046

CUTOFF FREQ. (1/3) =	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN WAVL. (1/3) =	0.00400	0.00300	0.00250	0.00200	0.00150	0.00125	0.00100
CUTOFF WAVL. (1/3) =	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVL. (1/3) =	705.	171.	154.	133.	109.	95.	80.
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.11590	0.11590	0.09404	0.08560	0.06667	0.06667	0.06667
2	0.03483	0.03336	0.02478	0.02478	0.02478	0.02478	0.02478
3	0.01127	0.01159	0.01227	0.01227	0.01227	0.01227	0.01227
4	0.00273	0.00367	0.00357	0.00357	0.00357	0.00357	0.00357
5	0.00259	0.00347	0.00249	0.00249	0.00247	0.00242	0.00242
6	0.00160	0.00232	0.00166	0.00166	0.00166	0.00166	0.00166
7	0.00074	0.00099	0.00070	0.00070	0.00070	0.00070	0.00070
8	0.00024	0.00070	0.00024	0.00024	0.00024	0.00024	0.00024
9	0.00041	0.00064	0.00064	0.00065	0.00065	0.00064	0.00064
10	0.00037	0.00043	0.00043	0.00037	0.00041	0.00039	0.00038
	RMS	RMS	RMS	RMS	RMS	RMS	RMS
1	0.11590	0.11590	0.09404	0.08560	0.06667	0.06667	0.06667
2	0.03483	0.03336	0.02478	0.02478	0.02478	0.02478	0.02478
3	0.01127	0.01159	0.01227	0.01227	0.01227	0.01227	0.01227
4	0.00273	0.00367	0.00357	0.00357	0.00357	0.00357	0.00357
5	0.00259	0.00347	0.00249	0.00249	0.00247	0.00242	0.00242
6	0.00160	0.00232	0.00166	0.00166	0.00166	0.00166	0.00166
7	0.00074	0.00099	0.00070	0.00070	0.00070	0.00070	0.00070
8	0.00024	0.00070	0.00024	0.00024	0.00024	0.00024	0.00024
9	0.00041	0.00064	0.00064	0.00065	0.00065	0.00064	0.00064
10	0.00037	0.00043	0.00043	0.00037	0.00041	0.00039	0.00038

Table 11 - $\Delta f = 0.00400$

CUTOFF FREQ. (1/4) =	0.00000	0.00013	0.00025	0.00033	0.00040	0.00050
TERMIN FREQ. (1/4) =	0.00000	0.00013	0.00025	0.00033	0.00040	0.00050
CUTOFF WAVL. (M) =	156.1	750.0	400.0	300.0	750.0	200.0
TERMIN WAVL. (M) =	75.0	750.0	75.0	75.0	75.0	22.0
N	4					
Y	0.00273	RMS	RMS	RMS	RMS	RMS
3	0.00273	0.07111	0.06574	0.06203	0.05639	0.04764
10	0.00273	0.01133	0.01545	0.01731	0.01828	0.01908
15	0.00273	0.00780	0.00909	0.00974	0.00950	0.00920
20	0.00273	0.00746	0.00723	0.00738	0.00735	0.00735
25	0.00273	0.00715	0.00717	0.00717	0.00717	0.00717
30	0.00273	0.00714	0.00714	0.00714	0.00714	0.00714
35	0.00273	0.00714	0.00714	0.00714	0.00714	0.00714
40	0.00273	0.00714	0.00714	0.00714	0.00714	0.00714
45	0.00273	0.00714	0.00714	0.00714	0.00714	0.00714
50	0.00273	0.00714	0.00714	0.00714	0.00714	0.00714
CUTOFF FREQ. (1/4) =	0.00000	0.00010	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/4) =	0.00000	0.00010	0.00111	0.00125	0.00143	0.00167
CUTOFF WAVL. (M) =	150.0	1000.0	900.0	800.0	700.0	600.0
TERMIN WAVL. (M) =	75.0	200.0	196.0	190.0	184.0	174.0
N	4					
Y	0.04347	RMS	RMS	RMS	RMS	RMS
5	0.04347	0.08664	0.08284	0.07865	0.07417	0.07009
10	0.04347	0.01336	0.01071	0.00965	0.00935	0.00911
15	0.04347	0.00909	0.00790	0.00765	0.00741	0.00717
20	0.04347	0.00815	0.00727	0.00711	0.00697	0.00683
25	0.04347	0.00803	0.00727	0.00711	0.00697	0.00683
30	0.04347	0.00802	0.00727	0.00711	0.00697	0.00683
35	0.04347	0.00802	0.00727	0.00711	0.00697	0.00683
40	0.04347	0.00802	0.00727	0.00711	0.00697	0.00683
45	0.04347	0.00802	0.00727	0.00711	0.00697	0.00683
50	0.04347	0.00802	0.00727	0.00711	0.00697	0.00683
CUTOFF FREQ. (1/4) =	0.00250	0.00500	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/4) =	0.00250	0.00500	0.00500	0.00667	0.00800	0.01000
CUTOFF WAVL. (M) =	500.0	200.0	200.0	150.0	125.0	100.0
TERMIN WAVL. (M) =	250.0	200.0	111.0	94.0	83.0	71.0
N	4					
Y	0.05234	RMS	RMS	RMS	RMS	RMS
5	0.05234	0.05234	0.07392	0.06724	0.05649	0.04774
10	0.05234	0.01599	0.00811	0.00707	0.01911	0.01245
15	0.05234	0.00327	0.00307	0.00310	0.00310	0.00304
20	0.05234	0.00214	0.00209	0.00175	0.00174	0.00174
25	0.05234	0.00197	0.00187	0.00187	0.00187	0.00187
30	0.05234	0.00197	0.00197	0.00197	0.00197	0.00197
35	0.05234	0.00197	0.00197	0.00197	0.00197	0.00197
40	0.05234	0.00197	0.00197	0.00197	0.00197	0.00197
45	0.05234	0.00197	0.00197	0.00197	0.00197	0.00197
50	0.05234	0.00197	0.00197	0.00197	0.00197	0.00197



Appendix D
TABLES OF FILTER WEIGHTS

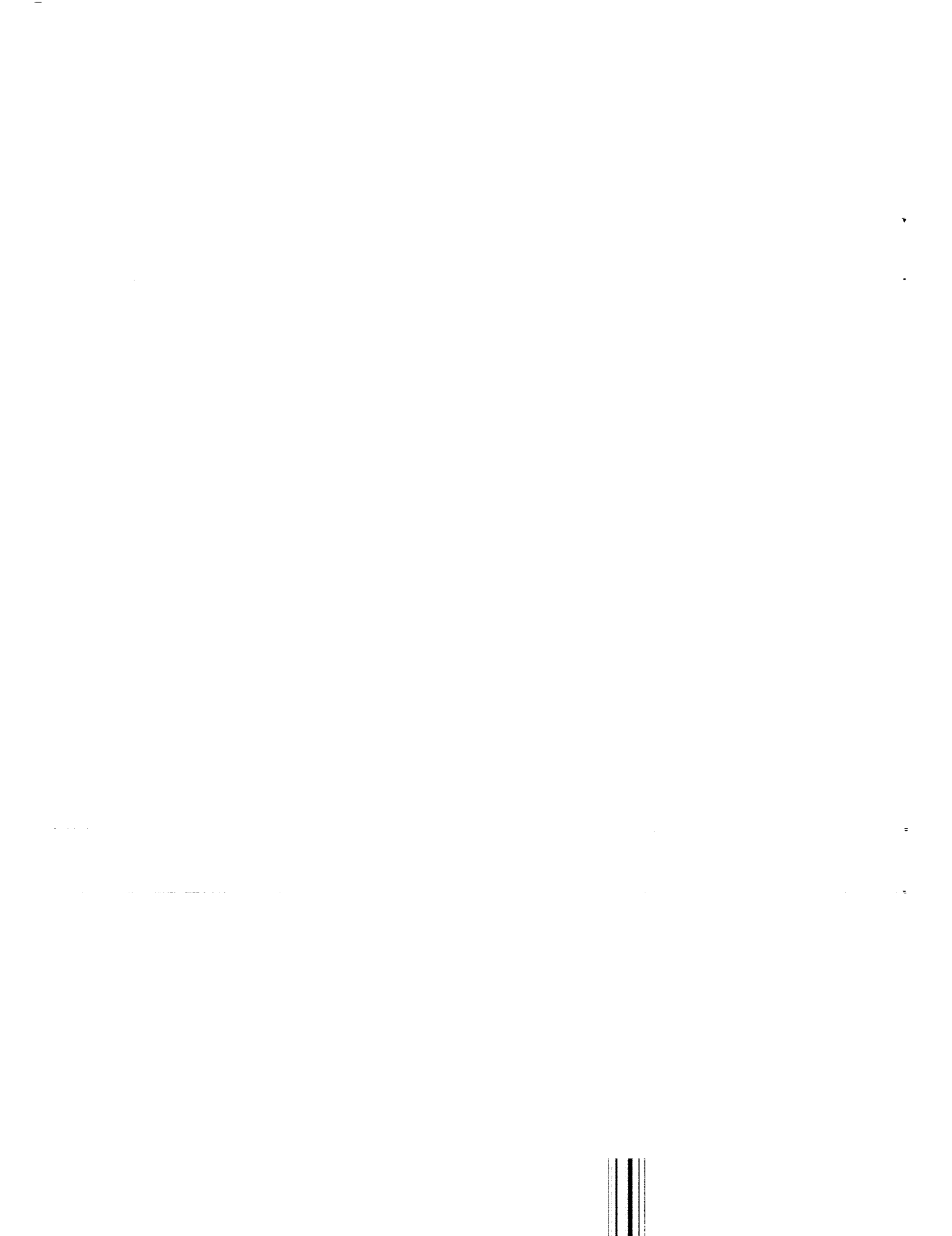


Table 1 - $\Delta f = 0.00030$ (Continued)

CUTOFF FREQ. (1/M)	TERMIN PAUL. (1/M)	TERMIN WAFL. (M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
1	0.00057	0.00067	0.00060	0.00100	0.00111	0.00125	0.00143	0.00167				
2	0.00097	0.00097	0.00110	0.00130	0.00141	0.00155	0.00173	0.00197				
3	0.00133	0.00133	0.00150	0.00169	0.00180	0.00191	0.00202	0.00213				
4	0.00169	0.00169	0.00186	0.00203	0.00215	0.00227	0.00239	0.00251				
5	0.00205	0.00205	0.00223	0.00240	0.00253	0.00266	0.00279	0.00292				
6	0.00241	0.00241	0.00260	0.00277	0.00291	0.00305	0.00319	0.00333				
7	0.00277	0.00277	0.00297	0.00315	0.00329	0.00343	0.00357	0.00371				
8	0.00313	0.00313	0.00334	0.00353	0.00368	0.00382	0.00396	0.00411				
9	0.00349	0.00349	0.00371	0.00391	0.00406	0.00421	0.00435	0.00450				
10	0.00385	0.00385	0.00408	0.00429	0.00444	0.00459	0.00474	0.00489				
11	0.00421	0.00421	0.00445	0.00466	0.00481	0.00496	0.00511	0.00526				
12	0.00457	0.00457	0.00482	0.00504	0.00520	0.00535	0.00551	0.00566				
13	0.00493	0.00493	0.00519	0.00541	0.00557	0.00573	0.00589	0.00605				
14	0.00529	0.00529	0.00556	0.00579	0.00596	0.00613	0.00630	0.00647				
15	0.00565	0.00565	0.00593	0.00617	0.00634	0.00651	0.00668	0.00685				
16	0.00601	0.00601	0.00630	0.00655	0.00672	0.00689	0.00706	0.00723				
17	0.00637	0.00637	0.00667	0.00693	0.00710	0.00727	0.00744	0.00761				
18	0.00673	0.00673	0.00704	0.00731	0.00749	0.00767	0.00785	0.00803				
19	0.00709	0.00709	0.00741	0.00769	0.00787	0.00805	0.00823	0.00841				
20	0.00745	0.00745	0.00778	0.00807	0.00826	0.00845	0.00864	0.00883				
21	0.00781	0.00781	0.00815	0.00845	0.00865	0.00885	0.00905	0.00925				
22	0.00817	0.00817	0.00852	0.00883	0.00904	0.00925	0.00946	0.00967				
23	0.00853	0.00853	0.00889	0.00921	0.00943	0.00965	0.00987	0.01009				
24	0.00889	0.00889	0.00926	0.00959	0.00982	0.01005	0.01028	0.01051				
25	0.00925	0.00925	0.00963	0.00997	0.01021	0.01045	0.01069	0.01093				
26	0.00961	0.00961	0.01000	0.01035	0.01060	0.01085	0.01110	0.01135				
27	0.00997	0.00997	0.01037	0.01073	0.01100	0.01127	0.01154	0.01181				
28	0.01033	0.01033	0.01074	0.01111	0.01139	0.01167	0.01195	0.01223				
29	0.01069	0.01069	0.01111	0.01149	0.01178	0.01207	0.01236	0.01265				
30	0.01105	0.01105	0.01148	0.01187	0.01217	0.01247	0.01277	0.01307				
31	0.01141	0.01141	0.01185	0.01225	0.01256	0.01287	0.01318	0.01349				
32	0.01177	0.01177	0.01222	0.01263	0.01295	0.01327	0.01359	0.01391				
33	0.01213	0.01213	0.01259	0.01301	0.01334	0.01367	0.01400	0.01433				
34	0.01249	0.01249	0.01296	0.01339	0.01373	0.01407	0.01441	0.01475				
35	0.01285	0.01285	0.01333	0.01377	0.01412	0.01447	0.01482	0.01517				
36	0.01321	0.01321	0.01370	0.01415	0.01450	0.01485	0.01520	0.01555				
37	0.01357	0.01357	0.01407	0.01452	0.01488	0.01524	0.01560	0.01596				
38	0.01393	0.01393	0.01444	0.01491	0.01528	0.01565	0.01602	0.01639				
39	0.01429	0.01429	0.01481	0.01529	0.01567	0.01605	0.01643	0.01681				
40	0.01465	0.01465	0.01518	0.01567	0.01606	0.01645	0.01684	0.01723				
41	0.01501	0.01501	0.01555	0.01605	0.01645	0.01685	0.01725	0.01765				
42	0.01537	0.01537	0.01592	0.01647	0.01688	0.01729	0.01770	0.01811				
43	0.01573	0.01573	0.01628	0.01673	0.01715	0.01757	0.01799	0.01841				
44	0.01609	0.01609	0.01665	0.01711	0.01754	0.01797	0.01840	0.01883				
45	0.01645	0.01645	0.01702	0.01746	0.01790	0.01834	0.01878	0.01922				
46	0.01681	0.01681	0.01739	0.01784	0.01829	0.01874	0.01919	0.01964				
47	0.01717	0.01717	0.01775	0.01821	0.01867	0.01913	0.01959	0.02005				
48	0.01753	0.01753	0.01812	0.01859	0.01906	0.01953	0.02000	0.02047				
49	0.01789	0.01789	0.01849	0.01897	0.01945	0.01993	0.02041	0.02089				
50	0.01825	0.01825	0.01886	0.01935	0.01984	0.02033	0.02082	0.02131				

(Continued)

Table 1 - $\Delta f = 0.00030$ (Continued)

CUTOFF FREQ. (1/M)	0.00200	0.00250	0.00300	0.00400	0.00500	0.00647	0.00800	0.01000
TERMIN PAUL. (1/M)	0.00230	0.00280	0.00330	0.00430	0.00530	0.00697	0.00900	0.01100
CUTOFF PAUL. (M)	500.	400.	300.	250.	200.	150.	125.	100.
TERMIN PAUL. (M)	435.	357.	275.	233.	189.	144.	120.	97.
1	0.00200	0.00250	0.00300	0.00400	0.00500	0.00647	0.00800	0.01000
2	0.00230	0.00280	0.00330	0.00430	0.00530	0.00697	0.00900	0.01100
3	0.00250	0.00300	0.00350	0.00450	0.00550	0.00712	0.00920	0.01150
4	0.00275	0.00325	0.00375	0.00475	0.00575	0.00742	0.00950	0.01200
5	0.00300	0.00350	0.00400	0.00500	0.00600	0.00770	0.00980	0.01250
6	0.00325	0.00375	0.00425	0.00525	0.00625	0.00800	0.01010	0.01300
7	0.00350	0.00400	0.00450	0.00550	0.00650	0.00830	0.01040	0.01350
8	0.00375	0.00425	0.00475	0.00575	0.00675	0.00860	0.01070	0.01400
9	0.00400	0.00450	0.00500	0.00600	0.00700	0.00890	0.01100	0.01450
10	0.00425	0.00475	0.00525	0.00625	0.00725	0.00920	0.01130	0.01500
11	0.00450	0.00500	0.00550	0.00650	0.00750	0.00950	0.01160	0.01550
12	0.00475	0.00525	0.00575	0.00675	0.00775	0.00980	0.01190	0.01600
13	0.00500	0.00550	0.00600	0.00700	0.00800	0.01010	0.01220	0.01650
14	0.00525	0.00575	0.00625	0.00725	0.00825	0.01040	0.01250	0.01700
15	0.00550	0.00600	0.00650	0.00750	0.00850	0.01080	0.01280	0.01750
16	0.00575	0.00625	0.00675	0.00775	0.00875	0.01110	0.01310	0.01800
17	0.00600	0.00650	0.00700	0.00800	0.00900	0.01140	0.01340	0.01850
18	0.00625	0.00675	0.00725	0.00825	0.00925	0.01170	0.01370	0.01900
19	0.00650	0.00700	0.00750	0.00850	0.00950	0.01200	0.01400	0.01950
20	0.00675	0.00725	0.00775	0.00875	0.00975	0.01230	0.01430	0.02000
21	0.00700	0.00750	0.00800	0.00900	0.01000	0.01260	0.01460	0.02050
22	0.00725	0.00775	0.00825	0.00925	0.01025	0.01290	0.01490	0.02100
23	0.00750	0.00800	0.00850	0.00950	0.01050	0.01320	0.01520	0.02150
24	0.00775	0.00825	0.00875	0.00975	0.01075	0.01350	0.01550	0.02200
25	0.00800	0.00850	0.00900	0.01000	0.01100	0.01380	0.01580	0.02250
26	0.00825	0.00875	0.00925	0.01025	0.01125	0.01410	0.01610	0.02300
27	0.00850	0.00900	0.00950	0.01050	0.01150	0.01440	0.01640	0.02350
28	0.00875	0.00925	0.00975	0.01075	0.01175	0.01470	0.01670	0.02400
29	0.00900	0.00950	0.01000	0.01100	0.01200	0.01500	0.01700	0.02450
30	0.00925	0.00975	0.01025	0.01125	0.01225	0.01530	0.01730	0.02500
31	0.00950	0.01000	0.01050	0.01150	0.01250	0.01560	0.01760	0.02550
32	0.00975	0.01025	0.01075	0.01175	0.01275	0.01590	0.01790	0.02600
33	0.01000	0.01050	0.01100	0.01200	0.01300	0.01620	0.01820	0.02650
34	0.01025	0.01075	0.01125	0.01225	0.01325	0.01650	0.01850	0.02700
35	0.01050	0.01100	0.01150	0.01250	0.01350	0.01680	0.01880	0.02750
36	0.01075	0.01125	0.01175	0.01275	0.01375	0.01710	0.01910	0.02800
37	0.01100	0.01150	0.01200	0.01300	0.01400	0.01740	0.01940	0.02850
38	0.01125	0.01175	0.01225	0.01325	0.01425	0.01770	0.01970	0.02900
39	0.01150	0.01200	0.01250	0.01350	0.01450	0.01800	0.02000	0.02950
40	0.01175	0.01225	0.01275	0.01375	0.01475	0.01830	0.02030	0.03000
41	0.01200	0.01250	0.01300	0.01400	0.01500	0.01860	0.02060	0.03050
42	0.01225	0.01275	0.01325	0.01425	0.01525	0.01890	0.02090	0.03100
43	0.01250	0.01300	0.01350	0.01450	0.01550	0.01920	0.02120	0.03150
44	0.01275	0.01325	0.01375	0.01475	0.01575	0.01950	0.02150	0.03200
45	0.01300	0.01350	0.01400	0.01500	0.01600	0.01980	0.02180	0.03250
46	0.01325	0.01375	0.01425	0.01525	0.01625	0.02010	0.02210	0.03300
47	0.01350	0.01400	0.01450	0.01550	0.01650	0.02040	0.02240	0.03350
48	0.01375	0.01425	0.01475	0.01575	0.01675	0.02070	0.02270	0.03400
49	0.01400	0.01450	0.01500	0.01600	0.01700	0.02100	0.02300	0.03450
50	0.01425	0.01475	0.01525	0.01625	0.01725	0.02130	0.02330	0.03500

Table 2 - $\Delta f = 0.00050$ (Continued)

CUTOFF FREQ. (1/M)	0.00057	0.00067	0.00090	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	0.00107	0.00117	0.00130	0.00150	0.00161	0.00175	0.00193	0.00217
CUTOFF AVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN AVL. (M)	933.	857.	769.	667.	621.	571.	519.	462.
0	0.01642957	0.01833333	0.02100003	0.02500000	0.02722222	0.03000000	0.03357143	0.03833333
1	0.01639063	0.01826734	0.02097187	0.02493404	0.02711135	0.02971885	0.03271894	0.03775133
2	0.01623734	0.01807042	0.02060918	0.02434815	0.02638477	0.02888505	0.03201425	0.03603748
3	0.01607031	0.01774512	0.02012705	0.02354815	0.02536332	0.02752721	0.03013878	0.03328009
4	0.01587217	0.01729592	0.01946398	0.02225535	0.02396706	0.02584968	0.02782008	0.02964790
5	0.01565657	0.01672887	0.01863118	0.02109599	0.02224425	0.02344061	0.02456773	0.025531761
6	0.01542531	0.01605163	0.01764330	0.01950744	0.02022400	0.02088490	0.02140794	0.021852609
7	0.01518227	0.01527325	0.01651716	0.01771229	0.01800964	0.01800362	0.01738126	0.01552027
8	0.01493535	0.01440408	0.01527187	0.01574722	0.01561378	0.01499552	0.01353535	0.01055033
9	0.01424243	0.01344556	0.01392831	0.01371182	0.01311634	0.01192030	0.00971791	0.00545035
10	0.01205703	0.01244007	0.01250873	0.01159230	0.01058238	0.00889234	0.00640842	0.00163377
11	0.01124145	0.01137064	0.01103626	0.00945518	0.00807598	0.00591147	0.00409422	0.00142377
12	0.01038626	0.01026097	0.00953443	0.00734404	0.00568618	0.00321034	0.00223311	0.00071695
13	0.00940033	0.00912479	0.00802672	0.00530823	0.00338509	0.00249664	0.00174650	0.00066708
14	0.00859275	0.00797607	0.00653606	0.00338174	0.00130618	0.000139240	0.000461728	0.000774603
15	0.00767265	0.00682856	0.00508439	0.00146021	0.00053713	0.000314284	0.000594780	0.000805483
16	0.00674909	0.00569563	0.00369227	0.00000000	0.00211255	0.001450492	0.00047809	0.000782224
17	0.00583097	0.00459010	0.00237845	0.00140042	0.00339764	0.00243844	0.000498728	0.000455339
18	0.00492691	0.00352401	0.00115958	0.00259102	0.00438023	0.00600943	0.00474072	0.000512859
19	0.00404511	0.00250844	0.00004991	0.00353046	0.00505832	0.00617908	0.00407583	0.00033094
20	0.00319331	0.00155344	0.00017889	0.00424413	0.00543976	0.00600211	0.00408213	0.000155346
21	0.00237865	0.00066780	0.00179809	0.00472407	0.00554149	0.00600211	0.00385647	0.000222004
22	0.00160761	0.0004104	0.00252155	0.00497855	0.00536854	0.00480141	0.00385647	0.000199800
23	0.00084593	0.00046707	0.00310621	0.00502161	0.00401271	0.00384837	0.0011129	0.00306332
24	0.00021460	0.00150544	0.00335178	0.00448734	0.00374454	0.00177691	0.00141005	0.00439686
25	0.00039027	0.00205367	0.003386074	0.00455406	0.00293595	0.00069311	0.00239920	0.004927314
26	0.00037339	0.00250954	0.00403813	0.00459341	0.00293595	0.00069311	0.00314023	0.004927314
27	0.00142037	0.00287314	0.00409134	0.00351939	0.00206820	0.00033210	0.00314023	0.004927314
28	0.00183770	0.00314580	0.00402993	0.002346229	0.00118349	0.00125087	0.00314023	0.004927314
29	0.00214875	0.00333304	0.00386514	0.00215773	0.00032937	0.00202459	0.00314023	0.004927314
30	0.00247372	0.00342974	0.00360979	0.00142066	0.00048456	0.00262504	0.00370652	0.00142066
31	0.00269366	0.00344999	0.00327776	0.00069443	0.00120282	0.00303496	0.00370652	0.00142066
32	0.00285039	0.00339664	0.00288371	0.00000000	0.00180988	0.00324823	0.00285039	0.00071010
33	0.00294644	0.00327669	0.00244267	0.00043974	0.00228820	0.00376911	0.0021134	0.00140329
34	0.00294501	0.00309754	0.00196971	0.00120557	0.00246700	0.00311153	0.00134863	0.00228514
35	0.00294999	0.00246737	0.00147958	0.00188231	0.00282219	0.00277758	0.00059075	0.00271580
36	0.00290537	0.00254454	0.00098639	0.00205907	0.00287612	0.00235583	0.00019588	0.00287612
37	0.00274618	0.00228783	0.00050332	0.00229237	0.00279701	0.00181944	0.000091093	0.00272752
38	0.00244738	0.00195581	0.00004235	0.00249104	0.00259822	0.00122409	0.00151053	0.00243362
39	0.002244	0.00160710	0.00036594	0.00254401	0.00229741	0.00040600	0.00194444	0.00190622
40	0.00227	0.00125000	0.0007254	0.00250000	0.00191511	0.00000000	0.00225242	0.00125000
41	0.0020	0.000389241	0.00111016	0.00236202	0.00147440	0.000056220	0.00234714	0.00053150
42	0.0017642	0.00054171	0.00133327	0.00214385	0.00099900	0.00015348	0.00210667	0.00018204
43	0.00149951	0.00020463	0.00161815	0.00165945	0.00051257	0.000145239	0.00210667	0.00032869
44	0.00122759	0.00011282	0.00178266	0.00152425	0.00003762	0.00017192	0.00136457	0.00177176
45	0.00095381	0.000040541	0.00188720	0.00115453	0.000040542	0.00191991	0.00134073	0.00127807
46	0.00066922	0.000046881	0.00193257	0.00076674	0.000079893	0.00197892	0.00084902	0.00127108
47	0.00041932	0.000049953	0.00192186	0.00037490	0.00112872	0.00192597	0.000033429	0.00193176
48	0.00016699	0.000040501	0.00195928	0.00000000	0.00138443	0.00138443	0.00014669	0.00193176
49	0.00007053	0.0000175007	0.00175007	0.00035048	0.00155971	0.00153176	0.00042180	0.00146709
50	0.000029019	0.000137443	0.00140054	0.00066297	0.00145225	0.00122502	0.000100251	0.00105464

(Continued)

Table 2 - $\Delta f = 0.00050$ (Continued)

CUTOFF FREQ. (1/M) -	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.01000
TERMIN FREQ. (1/M) -	0.00250	0.00303	0.00450	0.00550	0.00717	0.00850	0.01050
CUTOFF WAVELENGTH (M) -	400.	300.	250.	200.	150.	125.	100.
TERMIN WAVELENGTH (M) -	333.	241.	222.	182.	140.	110.	95.
0	0.004500000	0.00716667	0.009500000	0.010500000	0.130333333	0.145000000	0.205000000
1	0.004402554	0.007093199	0.009400000	0.009348317	0.11246387	0.12252571	0.12720721
2	0.004312099	0.007026860	0.009318683	0.009242866	0.05243486	0.06324386	0.00997919
3	0.004229912	0.006964920	0.009209176	0.00914215	0.00998189	0.02077139	0.00920176
4	0.004156569	0.006907956	0.009114123	0.009046783	0.00964790	0.02082950	0.00906783
5	0.004094441	0.00685554	0.009049492	0.00898259	0.01907563	0.0094981	0.00900991
6	0.004042983	0.006807286	0.008992786	0.00892569	0.00927286	0.0210422	0.009042786
7	0.004000000	0.006763591	0.008954143	0.008882916	0.0090363	0.008625063	0.00901736127
8	0.003965487	0.00672424	0.008919595	0.008847224	0.00855033	0.01275595	0.008972334
9	0.003939094	0.00668994	0.00888996	0.008815623	0.00838887	0.01079909	0.008931634
10	0.003919919	0.006659388	0.008864015	0.00879220	0.008124007	0.00901168	0.00890168
11	0.003905555	0.00663289	0.008840159	0.00877353	0.00785310	0.01129283	0.0088709
12	0.003892555	0.006610405	0.00881927	0.00875465	0.00761945	0.009162518	0.008841694
13	0.003880433	0.006591517	0.0088021125	0.00873593	0.00735374	0.008457690	0.008813632
14	0.003869275	0.006576294	0.0087883369	0.00871741	0.007091661	0.008161727	0.0087861727
15	0.003859092	0.00656368	0.0087762854	0.008700221	0.006842629	0.007842629	0.0087602854
16	0.003850092	0.006552917	0.008766306	0.008684413	0.00659224	0.007542917	0.0087359224
17	0.003842099	0.006543004	0.008758293	0.0086772375	0.00634465	0.007243004	0.008712857
18	0.003835099	0.006534618	0.00875188	0.008671041	0.00609499	0.006943004	0.00869023
19	0.003829094	0.00652775	0.008746184	0.008665413	0.005847224	0.006643004	0.0086682854
20	0.003824094	0.00652229	0.00874113	0.008660221	0.005600221	0.006343004	0.008647224
21	0.003819094	0.00651713	0.00873613	0.008655466	0.00535353	0.006043004	0.008626667
22	0.003814094	0.006512279	0.008731202	0.008651179	0.005106667	0.005743004	0.008606667
23	0.003809094	0.00650774	0.008726481	0.008647180	0.004860000	0.005443004	0.008587180
24	0.003804094	0.006503481	0.008722833	0.008643406	0.004613333	0.005183004	0.008568333
25	0.003800000	0.006500000	0.008719285	0.008640000	0.004366667	0.004923004	0.008550000
26	0.003796094	0.006496777	0.008715833	0.008636727	0.004120000	0.004673004	0.008532777
27	0.003792094	0.006493750	0.008712485	0.008633581	0.003873333	0.004423004	0.008515581
28	0.003788094	0.006490870	0.008709233	0.008630533	0.003626667	0.004173004	0.008498433
29	0.003784094	0.006488113	0.008706085	0.008627485	0.003380000	0.003923004	0.008481385
30	0.003780094	0.006485467	0.008703041	0.008624441	0.003133333	0.003673004	0.008464341
31	0.003776094	0.006482920	0.008700000	0.008621502	0.002886667	0.003423004	0.008447300
32	0.003772094	0.006480482	0.008697067	0.008618561	0.002640000	0.003173004	0.008430267
33	0.003768094	0.006478152	0.008694237	0.008615619	0.002393333	0.002923004	0.008413237
34	0.003764094	0.006475929	0.008691411	0.008612674	0.002146667	0.002673004	0.008396211
35	0.003760094	0.006473811	0.008688594	0.008609726	0.001900000	0.002423004	0.008379181
36	0.003756094	0.006471799	0.008685771	0.008606786	0.001653333	0.002173004	0.008362151
37	0.003752094	0.006469880	0.008682950	0.008603844	0.001406667	0.001923004	0.008345120
38	0.003748094	0.006468061	0.008680125	0.008600900	0.001160000	0.001673004	0.008328090
39	0.003744094	0.006466344	0.008677304	0.008597952	0.000913333	0.001423004	0.008311060
40	0.003740094	0.006464729	0.008674481	0.008595000	0.000666667	0.001173004	0.008294030
41	0.003736094	0.006463211	0.008671659	0.008592052	0.000420000	0.000923004	0.008277000
42	0.003732094	0.006461799	0.008668833	0.008589100	0.000173333	0.000673004	0.008260070
43	0.003728094	0.006460482	0.008666000	0.008586152	0.000000000	0.000423004	0.008243040
44	0.003724094	0.006459267	0.008663175	0.008583200	0.000000000	0.000173004	0.008226010
45	0.003720094	0.006458152	0.008660349	0.008580250	0.000000000	0.000000000	0.008209080
46	0.003716094	0.006457037	0.008657522	0.008577300	0.000000000	0.000000000	0.008192050
47	0.003712094	0.006455920	0.008654694	0.008574350	0.000000000	0.000000000	0.008175020
48	0.003708094	0.006454803	0.008651867	0.008571400	0.000000000	0.000000000	0.008158090
49	0.003704094	0.006453685	0.008649039	0.008568450	0.000000000	0.000000000	0.008141060
50	0.003700094	0.006452567	0.008646211	0.008565500	0.000000000	0.000000000	0.008124030

Table 3 - $\Delta f = 0.00075$

CUTOFF FREQ. (1/M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0.00000	0.00000	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050	0.00060	0.00075
0.00075	0.00088	0.00098	0.00108	0.00118	0.00128	0.00138	0.00148	0.00158	0.00168
14714	7500	1132	5000	4000	3000	2500	2000	1500	1000
1333	1176	1053	1053	1000	923	870	800	800	800
0.00000	0.00000	0.00010	0.00015	0.00020	0.00025	0.00030	0.00035	0.00040	0.00045
0.00075	0.00085	0.00095	0.00105	0.00115	0.00125	0.00135	0.00145	0.00155	0.00165
14714	10000	1176	5000	4000	3000	2500	2000	1500	1000
1333	1176	1053	1053	1000	923	870	800	800	800

(Continued)

Table 3 - $\Delta f = 0.00075$ (Continued)

CUTOFF FREQ. (1/M)	WEIGHTS	# EIGHTS	WEIGHTS	# EIGHTS	WEIGHTS	# EIGHTS	WEIGHTS	# EIGHTS	WEIGHTS
0	0.0192857	0.00067	0.00100	0.00111	0.00125	0.00143	0.00167	0.00193	0.00222
1	0.0149273	0.00142	0.00175	0.00186	0.00200	0.00218	0.00232	0.00250	0.00269
2	0.0142640	0.00150	0.00190	0.00200	0.00210	0.00220	0.00230	0.00240	0.00250
3	0.0142938	0.00150	0.00190	0.00200	0.00210	0.00220	0.00230	0.00240	0.00250
4	0.0177389	0.00184	0.00213	0.00227	0.00242	0.00257	0.00272	0.00287	0.00302
5	0.0177194	0.00184	0.00213	0.00227	0.00242	0.00257	0.00272	0.00287	0.00302
6	0.0163213	0.01743	0.01720	0.01706	0.01692	0.01678	0.01664	0.01650	0.01636
7	0.0154418	0.01505	0.01482	0.01460	0.01438	0.01416	0.01394	0.01372	0.01350
8	0.0144310	0.01307	0.01285	0.01263	0.01241	0.01219	0.01197	0.01175	0.01153
9	0.0134025	0.01122	0.01100	0.01078	0.01056	0.01034	0.01012	0.00990	0.00968
10	0.0122753	0.01083	0.01061	0.01039	0.01017	0.00995	0.00973	0.00951	0.00929
11	0.0110981	0.00938	0.00916	0.00894	0.00872	0.00850	0.00828	0.00806	0.00784
12	0.0094878	0.00784	0.00762	0.00740	0.00718	0.00696	0.00674	0.00652	0.00630
13	0.0084614	0.00682	0.00660	0.00638	0.00616	0.00594	0.00572	0.00550	0.00528
14	0.0074357	0.00578	0.00556	0.00534	0.00512	0.00490	0.00468	0.00446	0.00424
15	0.0062270	0.00462	0.00440	0.00418	0.00396	0.00374	0.00352	0.00330	0.00308
16	0.0051064	0.00346	0.00324	0.00302	0.00280	0.00258	0.00236	0.00214	0.00192
17	0.0039208	0.00230	0.00208	0.00186	0.00164	0.00142	0.00120	0.00098	0.00076
18	0.0028565	0.00144	0.00122	0.00100	0.00078	0.00056	0.00034	0.00012	0.00000
19	0.0019513	0.00078	0.00056	0.00034	0.00012	0.00000	0.00000	0.00000	0.00000
20	0.0013927	0.00042	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
21	0.0009264	0.00020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
22	0.0006259	0.00012	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
23	0.0004297	0.00006	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
24	0.0002844	0.00003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
25	0.0001894	0.00001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
26	0.0001257	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
27	0.0000866	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
28	0.0000578	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	0.0000319	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	0.0000143	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
31	0.0000074	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
32	0.0000039	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
33	0.0000020	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
34	0.0000011	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
35	0.0000006	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
36	0.0000003	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
37	0.0000001	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
38	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
39	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
40	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
41	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
42	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
43	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
44	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
45	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
46	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
47	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
48	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
49	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
50	0.0000000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

(Continued)

Table 3 - $\Delta f = 0.00075$ (Continued)

CUTOFF FREQ. (1/M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	0.00200	0.00250	0.00333	0.00400	0.00500	0.00667	0.00800	0.00900	0.01000			
1	0.00275	0.00325	0.00408	0.00475	0.00575	0.00742	0.00875	0.00975	0.01075			
2	0.00350	0.00400	0.00493	0.00550	0.00650	0.00817	0.00950	0.01050	0.01150			
3	0.00425	0.00475	0.00578	0.00637	0.00747	0.00914	0.01047	0.01147	0.01247			
4	0.00500	0.00550	0.00662	0.00721	0.00831	0.01000	0.01123	0.01223	0.01323			
5	0.00575	0.00625	0.00747	0.00806	0.00916	0.01085	0.01208	0.01308	0.01408			
6	0.00650	0.00700	0.00832	0.00891	0.01001	0.01170	0.01293	0.01393	0.01493			
7	0.00725	0.00775	0.00917	0.00976	0.01086	0.01255	0.01378	0.01478	0.01578			
8	0.00800	0.00850	0.01052	0.01111	0.01221	0.01390	0.01513	0.01613	0.01713			
9	0.00875	0.00925	0.01147	0.01206	0.01316	0.01485	0.01608	0.01708	0.01808			
10	0.00950	0.01000	0.01289	0.01348	0.01458	0.01627	0.01750	0.01850	0.01950			
11	0.01025	0.01075	0.01382	0.01441	0.01551	0.01720	0.01843	0.01943	0.02043			
12	0.01100	0.01150	0.01504	0.01563	0.01673	0.01842	0.01965	0.02065	0.02165			
13	0.01175	0.01225	0.01647	0.01706	0.01816	0.01985	0.02108	0.02208	0.02308			
14	0.01250	0.01300	0.01800	0.01859	0.01969	0.02138	0.02261	0.02361	0.02461			
15	0.01325	0.01375	0.01963	0.02022	0.02132	0.02301	0.02424	0.02524	0.02624			
16	0.01400	0.01450	0.02126	0.02185	0.02295	0.02464	0.02587	0.02687	0.02787			
17	0.01475	0.01525	0.02289	0.02348	0.02458	0.02627	0.02750	0.02850	0.02950			
18	0.01550	0.01600	0.02472	0.02531	0.02641	0.02810	0.02933	0.03033	0.03133			
19	0.01625	0.01675	0.02665	0.02724	0.02834	0.03003	0.03126	0.03226	0.03326			
20	0.01700	0.01750	0.02878	0.02937	0.03047	0.03216	0.03339	0.03439	0.03539			
21	0.01775	0.01825	0.03111	0.03170	0.03280	0.03449	0.03572	0.03672	0.03772			
22	0.01850	0.01900	0.03364	0.03423	0.03533	0.03702	0.03825	0.03925	0.04025			
23	0.01925	0.01975	0.03637	0.03696	0.03806	0.03975	0.04098	0.04198	0.04298			
24	0.02000	0.02050	0.03930	0.03989	0.04099	0.04268	0.04391	0.04491	0.04591			
25	0.02075	0.02125	0.04243	0.04302	0.04412	0.04581	0.04704	0.04804	0.04904			
26	0.02150	0.02200	0.04576	0.04635	0.04745	0.04914	0.05037	0.05137	0.05237			
27	0.02225	0.02275	0.04939	0.04998	0.05108	0.05277	0.05400	0.05500	0.05600			
28	0.02300	0.02350	0.05332	0.05391	0.05501	0.05670	0.05793	0.05893	0.05993			
29	0.02375	0.02425	0.05755	0.05814	0.05924	0.06093	0.06216	0.06316	0.06416			
30	0.02450	0.02500	0.06218	0.06277	0.06387	0.06556	0.06679	0.06779	0.06879			
31	0.02525	0.02575	0.06721	0.06780	0.06890	0.07059	0.07182	0.07282	0.07382			
32	0.02600	0.02650	0.07264	0.07323	0.07433	0.07602	0.07725	0.07825	0.07925			
33	0.02675	0.02725	0.07847	0.07906	0.08016	0.08185	0.08308	0.08408	0.08508			
34	0.02750	0.02800	0.08470	0.08529	0.08639	0.08808	0.08931	0.09031	0.09131			
35	0.02825	0.02875	0.09133	0.09192	0.09302	0.09471	0.09594	0.09694	0.09794			
36	0.02900	0.02950	0.09856	0.09915	0.10025	0.10194	0.10317	0.10417	0.10517			
37	0.02975	0.03025	0.10619	0.10678	0.10788	0.10957	0.11080	0.11180	0.11280			
38	0.03050	0.03100	0.11422	0.11481	0.11591	0.11760	0.11883	0.11983	0.12083			
39	0.03125	0.03175	0.12265	0.12324	0.12434	0.12603	0.12726	0.12826	0.12926			
40	0.03200	0.03250	0.13148	0.13207	0.13317	0.13486	0.13609	0.13709	0.13809			
41	0.03275	0.03325	0.14071	0.14130	0.14240	0.14409	0.14532	0.14632	0.14732			
42	0.03350	0.03400	0.15034	0.15093	0.15203	0.15372	0.15495	0.15595	0.15695			
43	0.03425	0.03475	0.16147	0.16206	0.16316	0.16485	0.16608	0.16708	0.16808			
44	0.03500	0.03550	0.17310	0.17369	0.17479	0.17648	0.17771	0.17871	0.17971			
45	0.03575	0.03625	0.18523	0.18582	0.18692	0.18861	0.18984	0.19084	0.19184			
46	0.03650	0.03700	0.19786	0.19845	0.19955	0.20124	0.20247	0.20347	0.20447			
47	0.03725	0.03775	0.21109	0.21168	0.21278	0.21447	0.21570	0.21670	0.21770			
48	0.03800	0.03850	0.22432	0.22491	0.22601	0.22770	0.22893	0.22993	0.23093			
49	0.03875	0.03925	0.23855	0.23914	0.24024	0.24193	0.24316	0.24416	0.24516			
50	0.03950	0.04000	0.25278	0.25337	0.25447	0.25616	0.25739	0.25839	0.25939			

Table 4 - $\Delta f = 0.00100$

CUTOFF FREQ. (1/M)	U-00000	0-00010	0-00013	0-00020	0-00025	0-00033	U-00040	0-00050
TERMIN WAVL. (M)	U-00100	0-00110	0-00113	0-00120	0-00125	0-00133	U-00140	0-00150
CUTOFF WAVL. (M)	1000	10000	7500	5000	4000	3000	2500	2000
TERMIN WAVL. (M)	1000	900	882	833	800	750	714	667
0	U-01000000	0-01200000	0-0126667	0-01400000	0-01500000	0-0164667	0-01800000	0-02000000
1	U-01093333	0-01197524	0-0126667	0-01396334	0-01496334	0-0164667	0-01800000	0-02000000
2	U-00995557	0-01177861	0-01255387	0-01345500	0-01422669	0-0153894	0-0171965	0-0192670
3	U-00985573	0-0117061	0-01241396	0-01313633	0-01381257	0-014615635	0-01737355	0-0194683
4	U-00974668	0-01160860	0-01222009	0-01284271	0-01341634	0-014156722	0-01689700	0-01885398
5	U-00960337	0-01149281	0-01197422	0-01253682	0-013149404	0-013827676	0-01689779	0-01779472
6	U-00943290	0-0113327	0-01167882	0-01229995	0-01297039	0-013749208	0-01558561	0-01640955
7	U-00923455	0-01109305	0-01133687	0-01181078	0-01240598	0-013137953	0-01477192	0-01549750
8	U-00900984	0-01083242	0-011095176	0-011518178	0-01212708	0-01282229	0-01386960	0-01457823
9	U-00874046	0-01052279	0-01052279	0-01127427	0-01174917	0-01246229	0-01289277	0-01332301
10	U-00844826	0-00971162	0-01008758	0-01069594	0-01109095	0-01159518	0-01289277	0-01332301
11	U-00819827	0-00927664	0-00957706	0-01008174	0-01037285	0-01085579	0-01289277	0-01332301
12	U-00798361	0-00881725	0-00906037	0-00943853	0-00982441	0-01037285	0-01077416	0-01084980
13	U-00775554	0-00833747	0-00852233	0-00877295	0-00905452	0-0094448	0-00966784	0-00974774
14	U-00752133	0-00784144	0-00797673	0-00809178	0-00827032	0-00841992	0-00782994	0-00789522
15	U-00726955	0-00733332	0-00740184	0-00749194	0-00758826	0-00768595	0-00723062	0-00659962
16	U-00699895	0-00681730	0-00682778	0-00670978	0-006649645	0-00659152	0-00633062	0-00525007
17	U-00672454	0-00629751	0-00625499	0-00622029	0-00617137	0-00611814	0-00582270	0-0049092
18	U-00645223	0-00577801	0-00568367	0-00554494	0-00542347	0-00532062	0-00499802	0-00428042
19	U-00613759	0-00525528	0-00511944	0-00496814	0-00482347	0-00468592	0-00437354	0-00379970
20	U-00580000	0-00475528	0-00456773	0-00440509	0-00425220	0-00411440	0-00372240	0-00309358
21	U-00542668	0-00425229	0-00403131	0-00383282	0-00367321	0-00352000	0-00315450	0-00250000
22	U-00505815	0-00377795	0-00351420	0-003285106	0-003025281	0-00275304	0-00233224	0-00172601
23	U-00469845	0-00331425	0-003031946	0-00275496	0-002463784	0-00216394	0-00169392	0-00119224
24	U-00434352	0-00287044	0-00255054	0-00221074	0-00185136	0-00148700	0-00092659	0-00021902
25	U-003920112	0-00245003	0-00210724	0-00173255	0-00135924	0-00095224	0-00049017	0-000245003
26	U-00347088	0-00205382	0-00169789	0-00129983	0-00087596	0-000483393	0-000164017	0-000240471
27	U-0030255424	0-00168188	0-00131792	0-00089504	0-00041731	0-00019440	0-000187303	0-00266917
28	U-002525246	0-00134130	0-00097049	0-00047482	0-00013554	0-00013210	0-000202959	0-00266917
29	U-00196663	0-00102714	0-00065629	0-00021993	0-00013554	0-00013210	0-000202959	0-00266917
30	U-00149765	0-00074190	0-00037557	0-0001874	0-0001874	0-0001874	0-000213917	0-00255495
31	U-00114627	0-00048577	0-00012819	0-00005751	0-000106409	0-00017668	0-000210679	0-00240084
32	U-00082246	0-00028641	0-00008641	0-00007941	0-000121244	0-000178700	0-000202690	0-00219993
33	U-00049790	0-00015996	0-000026910	0-000089368	0-000129642	0-000176449	0-000202690	0-00219993
34	U-0003080149	0-00011085	0-000042111	0-000049232	0-000134244	0-000170527	0-000176449	0-00219993
35	U-000162340	0-000025492	0-000034395	0-000105830	0-000135491	0-00016559	0-000176449	0-00219993
36	U-000046403	0-000037344	0-000063937	0-000109465	0-000133777	0-00016559	0-000176449	0-00219993
37	U-000032245	0-000046789	0-000070934	0-000110457	0-000129589	0-000150164	0-000176449	0-00219993
38	U-00019835	0-000053987	0-000075599	0-000109139	0-000123273	0-000136945	0-000176449	0-00219993
39	U-00009112	0-000059117	0-000078160	0-000105455	0-000115339	0-000122746	0-000176449	0-00219993
40	U-00000000	0-000062364	0-000074850	0-000100910	0-000115339	0-000122746	0-000176449	0-00219993
41	U-000007585	0-000063930	0-000077910	0-000099662	0-000106103	0-000118888	0-000176449	0-00219993
42	U-00013734	0-000064008	0-000077579	0-000087417	0-000096609	0-000106103	0-000176449	0-00219993
43	U-00018555	0-000062803	0-000072093	0-000079471	0-000085300	0-000085300	0-000176449	0-00219993
44	U-00022147	0-000060512	0-000067683	0-000071104	0-000063688	0-00005835	0-00014118	0-00006884
45	U-00024624	0-000057332	0-000062568	0-000062568	0-00005352	0-00004624	0-00004500	0-000042124
46	U-00026099	0-000053451	0-000056956	0-000054089	0-00003719	0-000034666	0-00004500	0-00004500
47	U-00026886	0-000051040	0-000051040	0-000045086	0-000034666	0-000034666	0-00004500	0-00004500
48	U-00026500	0-000049245	0-000049245	0-000038095	0-000026500	0-000026500	0-00004500	0-00004500
49	U-00025652	0-000043922	0-000043922	0-000030825	0-000024929	0-000024929	0-00004500	0-00004500
50	U-00024252	0-000034298	0-000034298	0-000024252	0-000013125	0-000013125	0-00004500	0-00004500

(Continued)

Table 4 - $\Delta f = 0.00100$ (Continued)

CUTOFF FREQ. (1/M) -	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00147
TERMIN FREQ. (1/M) -	0.00157	0.00167	0.00180	0.00200	0.00211	0.00225	0.00243	0.00247
CUTOFF WAVL. (M) -	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M) -	616.	600.	556.	500.	474.	444.	412.	375.
4	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
5	0.02112822	0.02333333	0.02400000	0.03000000	0.03222222	0.03500000	0.03857143	0.04333333
6	0.02194257	0.02333333	0.02400000	0.03000000	0.03222222	0.03500000	0.03857143	0.04333333
7	0.02277172	0.02399040	0.02490640	0.02970592	0.03186607	0.03454068	0.03794198	0.04247478
8	0.02204219	0.02276114	0.02343345	0.02843345	0.03079187	0.03318542	0.03614985	0.03977023
9	0.02196614	0.02250915	0.02279187	0.02791877	0.02906135	0.03100205	0.03333010	0.03597723
10	0.02171176	0.02110064	0.02255110	0.02551170	0.02674273	0.02807740	0.02952365	0.03089534
11	0.01759302	0.01990904	0.02139486	0.02318460	0.02393336	0.02461244	0.02505535	0.02480019
12	0.01632849	0.01694602	0.01749751	0.01761935	0.01731903	0.01658194	0.01568942	0.01451310
13	0.01494414	0.01524444	0.01529821	0.01457823	0.01377713	0.01290078	0.01204451	0.01121658
14	0.01346786	0.01344750	0.01301100	0.01150133	0.01025718	0.00935101	0.00854038	0.00780534
15	0.01192874	0.01159518	0.01069564	0.00948826	0.00808834	0.00659382	0.00513405	0.00310642
16	0.01035628	0.00972760	0.00941105	0.00856312	0.00774336	0.00682678	0.00590325	0.00461044
17	0.00877965	0.00788341	0.00742149	0.00630127	0.00510186	0.00404617	0.00304670	0.00208836
18	0.00722697	0.00640975	0.00591469	0.00480925	0.00370979	0.00270989	0.00183353	0.00099649
19	0.00577453	0.00490924	0.00425845	0.00312644	0.00216327	0.00135779	0.00062577	0.00000468
20	0.00479644	0.00384132	0.00305825	0.00204132	0.00131989	0.00061734	0.00000595	0.00000000
21	0.00296376	0.00219200	0.00160852	0.00091503	0.00043827	0.00019645	0.00000000	0.00000000
22	0.00174424	0.00116493	0.00074088	0.00049103	0.00027823	0.00013402	0.00000000	0.00000000
23	0.00065207	0.00041104	0.00029642	0.00018916	0.00011223	0.00006302	0.00000000	0.00000000
24	0.00030234	0.00018007	0.00010007	0.00005292	0.00003474	0.00002099	0.00000000	0.00000000
25	0.00111260	0.00050000	0.00025000	0.00012500	0.00006250	0.00003125	0.00001562	0.00000781
26	0.00229371	0.00135045	0.00084733	0.00049133	0.00028294	0.00016044	0.00008852	0.00004826
27	0.00295335	0.00171291	0.00109473	0.00062500	0.00036524	0.00020951	0.00012080	0.00006593
28	0.00278419	0.00254349	0.00214915	0.00166636	0.00120278	0.00074992	0.00032246	0.00015103
29	0.00254975	0.00213143	0.00169765	0.00125510	0.00082583	0.00042568	0.00021284	0.00010642
30	0.00224412	0.00169765	0.00127557	0.00086765	0.00049474	0.00025687	0.00012843	0.00006421
31	0.00194499	0.00126130	0.00089470	0.00054970	0.00032267	0.00017488	0.00008744	0.00004372
32	0.00161327	0.00083928	0.00051314	0.00029625	0.00016215	0.00008107	0.00004054	0.00002027
33	0.00127263	0.00044545	0.00026842	0.00014938	0.00007842	0.00003921	0.00001961	0.00000981
34	0.00093927	0.00020924	0.00010824	0.00005439	0.00002715	0.00001358	0.00000679	0.00000339
35	0.00062360	0.0001270	0.00006350	0.00003175	0.00001588	0.00000794	0.00000397	0.00000198
36	0.00033415	0.00004403	0.00002201	0.00001100	0.00000550	0.00000275	0.00000138	0.00000069
37	0.00007945	0.00000598	0.00000299	0.00000149	0.00000074	0.00000037	0.00000019	0.00000009
38	0.00014197	0.00007979	0.00004233	0.00002117	0.00001058	0.00000529	0.00000264	0.00000132
39	0.00032150	0.00008830	0.00004415	0.00002207	0.00001103	0.00000552	0.00000276	0.00000138
40	0.00040336	0.00010848	0.00005424	0.00002712	0.00001356	0.00000678	0.00000339	0.00000169
41	0.00055941	0.00014397	0.00007198	0.00003599	0.00001799	0.00000899	0.00000449	0.00000224
42	0.00042089	0.00008625	0.00004312	0.00002156	0.00001078	0.00000539	0.00000269	0.00000135
43	0.00044822	0.00007945	0.00003972	0.00001986	0.00000993	0.00000496	0.00000248	0.00000124
44	0.00044572	0.00007010	0.00003051	0.00001521	0.00000762	0.00000381	0.00000190	0.00000095
45	0.00041831	0.00005944	0.00002982	0.00001502	0.00000748	0.00000374	0.00000187	0.00000093
46	0.00057124	0.00004821	0.00002411	0.00001106	0.00000553	0.00000276	0.00000138	0.00000069
47	0.00050994	0.00003708	0.00001854	0.00000927	0.00000463	0.00000231	0.00000116	0.00000058
48	0.00043953	0.00002650	0.00001327	0.00000663	0.00000331	0.00000166	0.00000083	0.00000041
49	0.00036491	0.00001704	0.00000877	0.00000452	0.00000226	0.00000113	0.00000056	0.00000028
50	0.00029041	0.00000877	0.00000438	0.00000211	0.00000105	0.00000053	0.00000026	0.00000013

(Continued)

Table 5 - $\Delta f = 0.00125$

CUTOFF FREQ. (1/M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	0.01250000	0.01450000	0.01516667	0.01550000	0.01750000	0.01916667	0.02050000	0.02250000	0.00050
1	0.01264654	0.01463894	0.01531702	0.01563894	0.01772903	0.01947694	0.02083292	0.02336245	0.00175
2	0.01273754	0.01473258	0.01541688	0.01575639	0.01781742	0.01956098	0.02092708	0.02345919	2000.
3	0.01279195	0.01479308	0.01547731	0.01581999	0.01787192	0.01961504	0.02100004	0.02350644	571.
4	0.01280022	0.01480025	0.01548871	0.01583001	0.01788001	0.01962733	0.02101833	0.02351223	
5	0.01279334	0.01479143	0.01547624	0.01581577	0.01786907	0.01961355	0.02100903	0.02350303	
6	0.01279074	0.01478626	0.01547344	0.01581035	0.01786481	0.01960912	0.02100412	0.02349833	
7	0.01278812	0.01478366	0.01547081	0.01580498	0.01786057	0.01960468	0.02100000	0.02349366	
8	0.01278549	0.01478107	0.01546817	0.01579967	0.01785631	0.01959999	0.02099533	0.02348901	
9	0.01278287	0.01477847	0.01546548	0.01579438	0.01785204	0.01959528	0.02099068	0.02348436	
10	0.01278025	0.01477588	0.01546280	0.01578909	0.01784776	0.01959057	0.02098593	0.02347971	
11	0.01277763	0.01477328	0.01546011	0.01578380	0.01784348	0.01958586	0.02098118	0.02347506	
12	0.01277501	0.01477069	0.01545742	0.01577851	0.01783920	0.01958115	0.02097643	0.02347041	
13	0.01277239	0.01476809	0.01545473	0.01577322	0.01783492	0.01957644	0.02097168	0.02346576	
14	0.01276977	0.01476550	0.01545204	0.01576793	0.01783064	0.01957173	0.02096693	0.02346111	
15	0.01276715	0.01476291	0.01544935	0.01576264	0.01782636	0.01956702	0.02096218	0.02345646	
16	0.01276453	0.01476032	0.01544666	0.01575735	0.01782208	0.01956231	0.02095743	0.02345181	
17	0.01276191	0.01475773	0.01544397	0.01575206	0.01781780	0.01955760	0.02095268	0.02344716	
18	0.01275929	0.01475514	0.01544128	0.01574677	0.01781352	0.01955289	0.02094793	0.02344251	
19	0.01275667	0.01475255	0.01543859	0.01574148	0.01780924	0.01954818	0.02094318	0.02343786	
20	0.01275405	0.01475000	0.01543590	0.01573619	0.01780496	0.01954347	0.02093843	0.02343321	
21	0.01275143	0.01474741	0.01543321	0.01573090	0.01780068	0.01953876	0.02093368	0.02342856	
22	0.01274881	0.01474482	0.01543052	0.01572561	0.01779640	0.01953405	0.02092893	0.02342391	
23	0.01274619	0.01474223	0.01542783	0.01572032	0.01779212	0.01952934	0.02092418	0.02341926	
24	0.01274357	0.01473964	0.01542514	0.01571503	0.01778784	0.01952463	0.02091943	0.02341461	
25	0.01274095	0.01473705	0.01542245	0.01570974	0.01778356	0.01951992	0.02091468	0.02341000	
26	0.01273833	0.01473446	0.01541976	0.01570445	0.01777928	0.01951521	0.02090993	0.02340535	
27	0.01273571	0.01473187	0.01541707	0.01569916	0.01777500	0.01951050	0.02090518	0.02340070	
28	0.01273309	0.01472928	0.01541438	0.01569387	0.01777072	0.01950579	0.02089543	0.02339605	
29	0.01273047	0.01472669	0.01541169	0.01568858	0.01776644	0.01950108	0.02088568	0.02339140	
30	0.01272785	0.01472410	0.01540900	0.01568329	0.01776216	0.01949637	0.02087593	0.02338675	
31	0.01272523	0.01472151	0.01540631	0.01567800	0.01775788	0.01949166	0.02087118	0.02338210	
32	0.01272261	0.01471892	0.01540362	0.01567271	0.01775360	0.01948695	0.02086643	0.02337745	
33	0.01272000	0.01471633	0.01540093	0.01566742	0.01774932	0.01948224	0.02086168	0.02337280	
34	0.01271738	0.01471374	0.01539824	0.01566213	0.01774504	0.01947753	0.02085693	0.02336815	
35	0.01271476	0.01471115	0.01539555	0.01565684	0.01774076	0.01947282	0.02085218	0.02336350	
36	0.01271215	0.01470856	0.01539286	0.01565155	0.01773648	0.01946811	0.02084743	0.02335885	
37	0.01270953	0.01470597	0.01539017	0.01564626	0.01773220	0.01946340	0.02084268	0.02335420	
38	0.01270691	0.01470338	0.01538748	0.01564097	0.01772792	0.01945869	0.02083793	0.02334955	
39	0.01270430	0.01470079	0.01538479	0.01563568	0.01772364	0.01945398	0.02083318	0.02334490	
40	0.01270168	0.01470015	0.01538210	0.01563039	0.01771936	0.01944927	0.02082843	0.02334025	
41	0.01269906	0.01469756	0.01537941	0.01562510	0.01771508	0.01944456	0.02082368	0.02333560	
42	0.01269645	0.01469497	0.01537672	0.01561981	0.01771080	0.01943985	0.02081893	0.02333095	
43	0.01269383	0.01469238	0.01537403	0.01561452	0.01770652	0.01943514	0.02081418	0.02332630	
44	0.01269121	0.01468979	0.01537134	0.01560923	0.01770224	0.01943043	0.02080943	0.02332165	
45	0.01268860	0.01468720	0.01536865	0.01560394	0.01769796	0.01942572	0.02080468	0.02331700	
46	0.01268598	0.01468461	0.01536596	0.01559865	0.01769368	0.01942101	0.02080000	0.02331235	
47	0.01268337	0.01468202	0.01536327	0.01559336	0.01768940	0.01941630	0.02079531	0.02330770	
48	0.01268075	0.01467943	0.01536058	0.01558807	0.01768512	0.01941159	0.02079062	0.02330305	
49	0.01267814	0.01467684	0.01535789	0.01558278	0.01768084	0.01940688	0.02078593	0.02329840	
50	0.01267552	0.01467425	0.01535520	0.01557749	0.01767656	0.01940217	0.02078124	0.02329375	

(Continued)

Table 5 - $\Delta f = 0.00125$ (Continued)

CUTOFF FREQ. (1/M)	(1/M)	0.00057	0.00067	0.00080	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN FREQ. (1/M)	(1/M)	0.00182	0.00197	0.00205	0.00225	0.00234	0.00250	0.00268	0.00292
CUTOFF WAVL. (M)	(M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
TERMIN WAVL. (M)	(M)	549.	484.	444.	444.	424.	400.	373.	343.
1	0	0.02372857	0.02583331	0.02822360	0.03250000	0.03472222	0.03626214	0.03750000	0.03858333
1	1	0.02374425	0.02584304	0.02823361	0.03250000	0.03472222	0.03626214	0.03750000	0.03858333
2	0	0.02374425	0.02583353	0.02822361	0.03250000	0.03472222	0.03626214	0.03750000	0.03858333
3	0	0.02249507	0.02418955	0.02480465	0.02717459	0.03072265	0.03253884	0.03352397	0.03418221
4	0	0.02142187	0.02275393	0.02448096	0.02674407	0.02928243	0.03149874	0.03298904	0.03371001
5	0	0.02009407	0.02113333	0.02239334	0.02381476	0.02543521	0.02726861	0.02927808	0.03042382
6	0	0.01854401	0.01924254	0.02000133	0.02051576	0.02098763	0.0213708	0.0216141	0.02170739
7	0	0.01652529	0.01719205	0.01738856	0.01698469	0.01640393	0.0153354	0.01344165	0.01012053
8	0	0.01497128	0.01499471	0.01464390	0.01336990	0.01229160	0.01061033	0.00798329	0.00388365
9	0	0.01303351	0.01270350	0.01195733	0.00981376	0.00832868	0.00618892	0.00310068	0.00128686
10	0	0.01105999	0.01041107	0.00844916	0.00644916	0.00475116	0.00226465	0.00077567	0.00013917
11	0	0.00909724	0.00816735	0.00650094	0.00438976	0.00146236	0.00101417	0.00009326	0.00055183
12	0	0.00719073	0.00602247	0.00439304	0.00072817	0.00121140	0.00355165	0.00414430	0.00857494
13	0	0.00537948	0.00403989	0.00172102	0.00147099	0.00328560	0.00530726	0.00726454	0.01036190
14	0	0.00369495	0.00224488	0.0005946	0.00169933	0.00473836	0.00627436	0.00742473	0.00716894
15	0	0.00217807	0.00087344	0.00147245	0.00358971	0.00558480	0.00627436	0.006681601	0.00531110
16	0	0.00043496	0.00065337	0.00256112	0.00505634	0.00587308	0.00625000	0.00563106	0.00312500
17	0	0.00030337	0.00172435	0.00350811	0.00530321	0.00567835	0.00549972	0.00403301	0.0009768
18	0	0.00124112	0.00253330	0.00432888	0.00515921	0.00509540	0.004931967	0.00238451	0.00101354
19	0	0.00197351	0.00310371	0.00425090	0.00469803	0.00423052	0.00300878	0.00072879	0.00250550
20	0	0.00250628	0.00343608	0.00421142	0.00400141	0.00319321	0.00185744	0.00072546	0.00348608
21	0	0.00355957	0.00395472	0.00315300	0.00315300	0.00208850	0.00038766	0.00186437	0.00378466
22	0	0.00402409	0.00349712	0.00235293	0.00223055	0.00101024	0.00070432	0.00296239	0.00360297
23	0	0.00304634	0.00328974	0.00298526	0.00131975	0.000303592	0.00155240	0.00296682	0.00299466
24	0	0.0024034	0.0026411	0.00273710	0.00046947	0.0007473	0.00212207	0.00296218	0.00212207
25	0	0.00273103	0.00255624	0.00173272	0.00026771	0.00139137	0.00240879	0.00247108	0.00112723
26	0	0.00244480	0.00209494	0.00110933	0.00045901	0.00179279	0.00243415	0.00213764	0.00016232
27	0	0.00210514	0.00162254	0.00053405	0.00128703	0.00198511	0.00229006	0.00147619	0.00065340
28	0	0.00173676	0.00115372	0.00033199	0.00154088	0.00188663	0.00188187	0.00077949	0.00124000
29	0	0.00136054	0.00071469	0.00017991	0.00165425	0.00183584	0.00142124	0.00012882	0.00156132
30	0	0.00094497	0.00032281	0.00049275	0.00162290	0.00156688	0.00091930	0.00041330	0.00142390
31	0	0.00065522	0.00000771	0.00070599	0.00148166	0.00122503	0.00043085	0.00086721	0.00146491
32	0	0.00035284	0.00007575	0.00102192	0.00126138	0.00085252	0.00030000	0.00103694	0.00119680
33	0	0.00009588	0.00047290	0.00105351	0.00099345	0.00048701	0.00034255	0.00110824	0.00074861
34	0	0.0011115	0.00040294	0.00101391	0.00070914	0.00011099	0.00050492	0.00104432	0.00033582
35	0	0.00024647	0.00067125	0.00021952	0.00043354	0.00011009	0.00071093	0.00088009	0.0003009
36	0	0.00037317	0.00048580	0.00078741	0.00018777	0.00030780	0.00074310	0.00046597	0.00030780
37	0	0.00043369	0.00065647	0.00063507	0.00001371	0.00043096	0.00064948	0.00041188	0.0007718
38	0	0.00045431	0.00059419	0.00047729	0.00016296	0.00048914	0.00038880	0.00018231	0.00053493
39	0	0.00044205	0.00040941	0.00033270	0.00025425	0.00047798	0.00045041	0.0000716	0.0005026
40	0	0.00040464	0.00041411	0.00019444	0.00030315	0.00042709	0.00030315	0.00014160	0.0004161
41	0	0.00035002	0.00031649	0.00038647	0.00035334	0.00033784	0.00016684	0.00021677	0.00015085
42	0	0.00024570	0.00022453	0.00000674	0.00022427	0.00016732	0.00002199	0.00021639	0.00005094
43	0	0.00021455	0.00014454	0.0000442	0.00004408	0.0000767	0.0000458	0.00016848	0.00002203
44	0	0.00015441	0.00003694	0.00003694	0.00003694	0.00003694	0.00003694	0.00011094	0.00005603
45	0	0.00009789	0.00003450	0.00007174	0.000010482	0.00003450	0.00003450	0.00005678	0.00005588
46	0	0.00005224	0.00000680	0.00005689	0.00000548	0.00000642	0.00003331	0.00001810	0.00003358
47	0	0.00001942	0.00000384	0.00003095	0.00000177	0.00000844	0.00000000	0.00000000	0.00000000
48	0	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
49	0	0.00000651	0.00001503	0.00003039	0.00000179	0.00002173	0.00002909	0.00000298	0.00002895
50	0	0.00000159	0.00000337	0.00000559	0.00000106	0.00000496	0.00000712	0.00002315	0.00001261

(Continued)

Table 6 - $\Delta f = 0.00150$

CUTOFF FREQ. (1/M)	0.0000	0.0010	0.0013	0.0020	0.0025	0.0033	0.0040	0.0050
TERMIN FREQ. (1/M)	0.00150	0.00160	0.00163	0.00170	0.00175	0.00183	0.00190	0.00200
CUTOFF WAVL. (M)	IMPIN	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVL. (M)	647.	625.	612.	588.	571.	545.	526.	500.
N	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	0.01500000	0.01700000	0.01766667	0.01900000	0.02000000	0.02166667	0.02300000	0.02500000
1	0.0149566	0.01692726	0.01758689	0.01890069	0.01989168	0.02153372	0.02284506	0.02480703
2	0.01497360	0.01697052	0.01758925	0.01892095	0.01991639	0.02155372	0.02286456	0.02482343
3	0.014951662	0.01693510	0.01756972	0.01885526	0.01984928	0.02149344	0.02281076	0.024730137
4	0.014914935	0.01686510	0.01751624	0.018751624	0.019743128	0.02141379	0.022741085	0.024620312
5	0.01368809	0.01525318	0.01575444	0.016722423	0.01742163	0.01852376	0.01934656	0.02098567
6	0.01314069	0.01453030	0.01496542	0.01579094	0.01636935	0.01725200	0.01788178	0.01869333
7	0.01251635	0.01371039	0.01407226	0.01473883	0.01518699	0.015863134	0.01625190	0.01671725
8	0.01182942	0.01280999	0.01309244	0.01359056	0.01403760	0.014429760	0.014850176	0.015141702
9	0.01102912	0.01184293	0.01204550	0.01237024	0.01254185	0.01268840	0.01287900	0.012454920
10	0.01028933	0.01082937	0.01095060	0.01110276	0.01113709	0.01104181	0.01082937	0.01028933
11	0.00944829	0.00978691	0.00982790	0.00981308	0.00971653	0.00959515	0.00899758	0.00817970
12	0.00862835	0.00873159	0.00869713	0.00852551	0.00830834	0.00778075	0.00722529	0.00617722
13	0.00778167	0.00768199	0.00757724	0.00726309	0.00693887	0.006293991	0.00554990	0.00432640
14	0.00694002	0.00665373	0.00644595	0.00604676	0.005631195	0.004979176	0.00400289	0.00266409
15	0.00611448	0.00566161	0.00543938	0.00499588	0.0046030	0.00346358	0.00261004	0.00121625
16	0.00531528	0.00471879	0.0045166	0.00382581	0.00328502	0.00227318	0.00134988	0.00000000
17	0.00455158	0.00383558	0.00353471	0.0024961	0.0027539	0.00123371	0.00035398	0.00007779
18	0.00383136	0.00302870	0.00276980	0.0019788	0.00186857	0.00035256	0.00049309	0.00017190
19	0.00314124	0.00228071	0.00212382	0.00121382	0.00062972	0.00036833	0.000115338	0.000223631
20	0.00254448	0.00163494	0.00149054	0.00056336	0.00000000	0.00093208	0.00016394	0.00000000
21	0.00192089	0.00106552	0.00072613	0.00020226	0.00000000	0.00134633	0.000195078	0.00025468
22	0.00149685	0.00058094	0.00025446	0.00008527	0.00000000	0.00162246	0.000211889	0.00024447
23	0.00106535	0.00017972	0.000012452	0.000072911	0.00015526	0.0017565	0.000215918	0.000259578
24	0.00049605	0.00014143	0.00004207	0.000095905	0.00012396	0.00182228	0.000209428	0.000225276
25	0.00038738	0.00038738	0.000663926	0.00110316	0.00140405	0.00178086	0.00194978	0.00194978
26	0.0013668	0.00054477	0.00078272	0.00117239	0.00140731	0.00167027	0.00174179	0.00160991
27	0.00059666	0.00067928	0.00064005	0.00117853	0.00135408	0.00150718	0.00149909	0.00126360
28	0.00020604	0.00074032	0.00089151	0.00113368	0.00125263	0.00131529	0.00123923	0.00093133
29	0.00030746	0.00075571	0.00087444	0.00104984	0.00111874	0.00110476	0.00097965	0.00062929
30	0.00036936	0.000373393	0.00082296	0.00093852	0.00096519	0.00089172	0.00073393	0.00038936
31	0.00039744	0.00068333	0.00074545	0.00081037	0.00080339	0.00084872	0.00051354	0.00015889
32	0.00039744	0.00068333	0.00065134	0.00067472	0.00064314	0.00050256	0.00032579	0.00000000
33	0.00037521	0.00052703	0.00045784	0.00041346	0.00049251	0.00034221	0.00017494	0.00000000
34	0.00033609	0.00043541	0.00044199	0.00041346	0.00035758	0.00021090	0.00006228	0.00016914
35	0.00027828	0.00034281	0.00033955	0.00029335	0.00024261	0.00011029	0.00001347	0.00019052
36	0.00022745	0.00025414	0.00024514	0.00020170	0.00015005	0.00003993	0.00000569	0.00018050
37	0.00016677	0.00017314	0.00016270	0.00012769	0.00008070	0.00002033	0.000006931	0.00014780
38	0.00010679	0.00010273	0.00009303	0.000066315	0.00000000	0.00002001	0.000006299	0.00010194
39	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
40	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
41	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
42	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
43	0.00010228	0.00005623	0.00003389	0.00000125	0.000002451	0.00000631	0.000007650	0.000007328
44	0.00011836	0.00003275	0.000003352	0.000001451	0.00000449	0.00000369	0.00000655	0.000009055
45	0.00012579	0.00004104	0.00000594	0.000006334	0.00001097	0.00012401	0.00013224	0.00009393
46	0.00012538	0.00002323	0.000001639	0.000009052	0.00001436	0.00014638	0.00014560	0.00008005
47	0.00011818	0.00000137	0.000004109	0.000011616	0.000013339	0.00017482	0.00014807	0.000064310
48	0.00010547	0.00000249	0.000006605	0.000013425	0.000015123	0.00017283	0.00014005	0.00003337
49	0.00000000	0.00000000	0.000008941	0.000013425	0.000017065	0.00017065	0.00000000	0.00000000
50	0.00000000	0.00000000	0.000010944	0.000016440	0.000018011	0.00014289	0.00000000	0.00000000

(Continued)

Table 6 - Δf = 0.00150 (Continued)

CUTOFF FREQ. (1/M)	TERMIN FREQ. (1/M)	CUTOFF WAVL. (M)	TERMIN WAVL. (M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0.00057	0.00047	0.00047	0.00080	0.000100	0.000111	0.000125	0.001493	0.00167	0.00167	0.00167	0.00167
0.00207	0.00217	0.00217	0.00230	0.000250	0.000261	0.000275	0.000293	0.00317	0.00317	0.00317	0.00317
1790.	1500.	1500.	1250.	1000.	900.	800.	700.	600.	400.	400.	400.
443.	462.	462.	435.	400.	383.	364.	341.	316.	316.	316.	316.
0.00057	0.00047	0.00047	0.00080	0.000100	0.000111	0.000125	0.001493	0.00167	0.00167	0.00167	0.00167
0.00207	0.00217	0.00217	0.00230	0.000250	0.000261	0.000275	0.000293	0.00317	0.00317	0.00317	0.00317
1790.	1500.	1500.	1250.	1000.	900.	800.	700.	600.	400.	400.	400.
443.	462.	462.	435.	400.	383.	364.	341.	316.	316.	316.	316.

(Continued)

Table 6 - $\Delta f = 0.00150$ (Continued)

CUTOFF FREQ. (1/M)	0-00700	0-00250	0-00333	0-00400	0-00500	0-00617	0-00800	0-01000
TERMIN FREQ. (1/M)	0-00350	0-00400	0-00483	0-00550	0-00650	0-00817	0-00950	0-01150
CUTOFF ANGLE (M)	286	400	300	180	150	130	125	100
TERMIN ANGLE (M)	286	400	300	180	150	130	125	100
0	0-05500000	0-000000	0-000000	0-000000	0-000000	0-000000	0-000000	0-000000
1	0-00323537	0-00213144	0-00740896	0-06631403	0-0985827	0-1483052	0-12871338	0-21999999
2	0-04415489	0-05399584	0-06072001	0-06313285	0-06157812	0-04593841	0-02823553	0-01478389
3	0-00336668	0-00190702	0-003934902	0-00273726	0-01755916	0-01451642	0-003480786	0-003934902
4	0-00378290	0-02774966	0-01497454	0-00947553	0-01414934	0-003112390	0-002007301	0-01414934
5	0-00488567	0-01368909	0-00161140	0-001368009	0-002816449	0-01089707	0-01648606	0-00708657
6	0-01757204	0-00158751	0-00131069	0-001967857	0-001538777	0-001314049	0-01869343	0-00131069
7	0-00200340	0-00713595	0-001662448	0-001487149	0-000666717	0-001427809	0-00332526	0-01157000
8	0-00451681	0-01182542	0-001335331	0-000951671	0-001182542	0-001182542	0-001461770	0-01182542
9	0-00461954	0-01261017	0-000420441	0-000531422	0-01222144	0-001107912	0-00447730	0-00620461
10	0-01122933	0-00195348	0-00195348	0-01028933	0-00426198	0-00083655	0-01028933	0-00195348
11	0-00743004	0-00609043	0-000486441	0-00922959	0-00480688	0-00242157	0-00546450	0-00195348
12	0-00778374	0-00136660	0-00062835	0-00396402	0-00042835	0-00062835	0-00617721	0-00062835
13	0-00442111	0-00269545	0-00089200	0-000211389	0-000571866	0-00915562	0-00047523	0-00030575
14	0-00162513	0-00529355	0-00299699	0-000593564	0-00054619	0-000394302	0-00246404	0-00094002
15	0-00121425	0-00611448	0-00121425	0-000611448	0-000518361	0-000611448	0-00611448	0-000121425
16	0-00328502	0-00531524	0-000915330	0-00328502	0-00031528	0-000116198	0-00000000	0-00031524
17	0-00447292	0-00340213	0-00049094	0-00050809	0-00173473	0-00049298	0-000491566	0-00049094
18	0-00447292	0-00104899	0-00038136	0-00038136	0-000234786	0-00038136	0-000171960	0-00038136
19	0-0037662	0-00109264	0-00149165	0-00092233	0-000234786	0-00057762	0-00334702	0-00289212
20	0-00254644	0-00254644	0-00093208	0-00254644	0-000254648	0-000254648	0-000254648	0-00254644
21	0-0011305	0-00309504	0-00252543	0-0012425	0-00037798	0-00199089	0-00178461	0-00252543
22	0-00072477	0-00278564	0-00286362	0-00186054	0-00244244	0-00136694	0-00244244	0-00252543
23	0-00124334	0-00186861	0-00207809	0-000207809	0-00038739	0-00038739	0-00244244	0-00186861
24	0-00182228	0-00069405	0-00069405	0-00182228	0-00049405	0-00049405	0-00049405	0-00182228
25	0-00194748	0-00038738	0-00063826	0-00073488	0-00110316	0-00149287	0-00038738	0-00194748
26	0-00169388	0-00113134	0-00067255	0-000494316	0-00039744	0-00027504	0-00049431	0-00169388
27	0-00119344	0-00142574	0-00040590	0-000270799	0-00055233	0-00037521	0-00016091	0-00119344
28	0-00059395	0-00130944	0-00151854	0-00146266	0-00103158	0-00005966	0-00084431	0-00059395
29	0-00004447	0-0008952	0-00102358	0-00117354	0-00020804	0-00122942	0-00093133	0-00004447
30	0-00034936	0-00034936	0-00027882	0-00039204	0-00098827	0-00079038	0-00074180	0-00034936
31	0-00059730	0-00009560	0-00069904	0-00036326	0-00089172	0-00036326	0-00036936	0-00059730
32	0-00044316	0-00039744	0-00067255	0-00073488	0-00022079	0-00081333	0-00079777	0-00044316
33	0-00054893	0-000501198	0-00040590	0-000494316	0-00039744	0-00027504	0-00049405	0-00054893
34	0-00037684	0-00044316	0-0004055	0-00010318	0-00055233	0-00037521	0-00049405	0-00037684
35	0-00019062	0-00028524	0-00015175	0-00028524	0-00004694	0-00002244	0-00016914	0-00019062
36	0-00003993	0-00011589	0-00022745	0-00025213	0-00022745	0-00002244	0-00016914	0-00003993
37	0-00004825	0-00008894	0-00017519	0-00011005	0-00022745	0-00002244	0-00016914	0-00004825
38	0-00007132	0-00005734	0-00007559	0-00010318	0-00016143	0-00002244	0-00016914	0-00007132
39	0-00004412	0-00004431	0-000070597	0-00000062	0-000016143	0-000013119	0-0000875	0-00004412
40	0-00000000	0-00007000	0-00000000	0-00000000	0-00000000	0-00000000	0-00000000	0-00000000
41	0-00003920	0-00003946	0-00003946	0-00003170	0-0000272	0-00000000	0-00000000	0-00003920
42	0-00001511	0-00000414	0-00007712	0-00000422	0-0000272	0-00000000	0-00000000	0-00001511
43	0-00002959	0-00000474	0-000076971	0-00000649	0-00000422	0-000007712	0-00000000	0-00002959
44	0-000002078	0-00000631	0-000006971	0-000006749	0-00000901	0-00001846	0-00000000	0-000002078
45	0-00000405	0-00012579	0-000038405	0-00013120	0-00001836	0-0001846	0-00000657	0-00000405
46	0-00014058	0-00016437	0-00015542	0-00012579	0-00002951	0-00012579	0-000012579	0-00014058
47	0-00017290	0-00016424	0-00016424	0-00008807	0-00010708	0-00003005	0-000006310	0-00017290
48	0-00017045	0-00010547	0-00010547	0-00007065	0-00017397	0-00016982	0-00012785	0-00017045
49	0-00013312	0-00000237	0-00000237	0-00016464	0-00010547	0-00010547	0-00000000	0-00013312
50	0-00000492	0-00000492	0-00010944	0-00006692	0-00004440	0-00017657	0-00004492	0-00000492

Table 7 - $\Delta f = 0.00175$

CUTOFF FREQ. (1/M)	U-00000	U-00010	U-00013	U-00020	U-00025	U-00033	U-00040	U-00050
TERMIN FREQ. (1/M)	U-00175	U-00185	U-00188	U-00195	U-00200	U-00210	U-00215	U-00225
CUTOFF WAVL. (M)	571.	541.	531.	500.	500.	480.	465.	444.
TERMIN WAVL. (M)	571.	541.	531.	513.	500.	480.	465.	444.
0	U-01750000	U-01950000	U-02016667	U-02150000	U-02250000	U-02416667	U-02550000	U-02750000
1	U-01741376	U-01938913	U-02004654	U-02135971	U-02234305	U-02397370	U-02528458	U-02723790
2	U-01715708	U-01905947	U-01949951	U-02026450	U-02118770	U-02254637	U-02346463	U-02466295
3	U-01673602	U-01851982	U-01910587	U-02006250	U-02111720	U-02255153	U-02346913	U-02465653
4	U-01614087	U-01778446	U-01831050	U-01933826	U-02040869	U-02179026	U-02221108	U-02331875
5	U-01544378	U-01687264	U-01732673	U-01819748	U-01881930	U-01958008	U-02050309	U-02149895
6	U-01460291	U-01580791	U-01617906	U-01647310	U-01735017	U-01805893	U-01854460	U-01913876
7	U-01345533	U-01461723	U-01493914	U-01540258	U-01572610	U-01615902	U-01644795	U-01661502
8	U-01242394	U-01333004	U-01351931	U-01382841	U-014199319	U-01441820	U-01471602	U-014899319
9	U-01152894	U-01207385	U-01218854	U-01250038	U-01280038	U-013126936	U-01348736	U-013813609
10	U-01094642	U-01059009	U-01052480	U-01039462	U-01030361	U-010203581	U-010062974	U-009881213
11	U-00974321	U-00919929	U-00888140	U-00862237	U-00840889	U-00820489	U-00794947	U-007641788
12	U-00949669	U-00878387	U-008476835	U-00829353	U-00817581	U-008047581	U-007894502	U-00769359
13	U-008697572	U-008052042	U-007630717	U-00759344	U-00743344	U-00734577	U-00723591	U-00713392
14	U-00808908	U-00752827	U-0070501829	U-006941103	U-00689768	U-0068292765	U-00673904	U-00663904
15	U-007488119	U-00703895	U-006583762	U-006416594	U-006281312	U-0061640730	U-006075884	U-005985922
16	U-006949181	U-006510575	U-0060278071	U-005870754	U-005803644	U-005750930	U-005700594	U-005650584
17	U-006308573	U-005919349	U-0054185803	U-005214574	U-005158850	U-005113378	U-005073333	U-005038495
18	U-005727271	U-005340848	U-0048107498	U-004638240	U-004580850	U-004536871	U-004496797	U-004460671
19	U-005165735	U-00475262	U-0043267	U-0042021865	U-00414729	U-00410839	U-00407693	U-004048094
20	U-00459129	U-00422374	U-0038007465	U-003666571	U-0036109129	U-003573600	U-003540884	U-003512461
21	U-004042332	U-00371802	U-00330075306	U-003171531	U-003133076	U-003104536	U-003081584	U-003063024
22	U-0034968	U-00317432	U-00278594	U-00265226	U-002614492	U-00258557	U-002562534	U-002543258
23	U-003003563	U-00267461	U-0022807210	U-002122450	U-002074690	U-002040650	U-002018033	U-002000559
24	U-00240438	U-002074220	U-001694140	U-00151416	U-001436913	U-0013769	U-00132979	U-00129113
25	U-001837376	U-0014683	U-001093975	U-000913554	U-00083213	U-00078668	U-00074979	U-00071953
26	U-001244589	U-00079335	U-000408245	U-000210131	U-000105767	U-00003879	U-00001731	U-000005937
27	U-00064738	U-00027854	U-000085476	U-00000508	U-00000508	U-0000037425	U-000006579	U-0000037833
28	U-000044891	U-000022897	U-000006677	U-000001113	U-000007211	U-000006944	U-000004136	U-0000016136
29	U-000000082	U-000001644	U-000003241	U-0000052710	U-000009127	U-000007667	U-000004531	U-000001053
30	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
31	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
32	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
33	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
34	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
35	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
36	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
37	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
38	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
39	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
40	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
41	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
42	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
43	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
44	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
45	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
46	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
47	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
48	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
49	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000
50	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000	U-000000000

(Continued)

Table 7 - $\Delta f = 0.00175$ (Continued)

CUTOFF FREQ. (1/M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	U-0.00057	0.00067	0.00060	0.00100	0.00111	0.00125	0.00143	0.00167				
1	U-0.00232	0.00242	0.00255	0.00275	0.00284	0.00300	0.00318	0.00342				
2	U-0.00431	0.00441	0.00454	0.00476	0.00486	0.00500	0.00518	0.00542				
3	U-0.00631	0.00642	0.00655	0.00677	0.00687	0.00700	0.00718	0.00742				
4	U-0.00831	0.00842	0.00855	0.00877	0.00887	0.00900	0.00918	0.00942				
5	U-0.01031	0.01042	0.01055	0.01077	0.01087	0.01100	0.01118	0.01142				
6	U-0.01231	0.01242	0.01255	0.01277	0.01287	0.01300	0.01318	0.01342				
7	U-0.01431	0.01442	0.01455	0.01477	0.01487	0.01500	0.01518	0.01542				
8	U-0.01631	0.01642	0.01655	0.01677	0.01687	0.01700	0.01718	0.01742				
9	U-0.01831	0.01842	0.01855	0.01877	0.01887	0.01900	0.01918	0.01942				
10	U-0.02031	0.02042	0.02055	0.02077	0.02087	0.02100	0.02118	0.02142				
11	U-0.02231	0.02242	0.02255	0.02277	0.02287	0.02300	0.02318	0.02342				
12	U-0.02431	0.02442	0.02455	0.02477	0.02487	0.02500	0.02518	0.02542				
13	U-0.02631	0.02642	0.02655	0.02677	0.02687	0.02700	0.02718	0.02742				
14	U-0.02831	0.02842	0.02855	0.02877	0.02887	0.02900	0.02918	0.02942				
15	U-0.03031	0.03042	0.03055	0.03077	0.03087	0.03100	0.03118	0.03142				
16	U-0.03231	0.03242	0.03255	0.03277	0.03287	0.03300	0.03318	0.03342				
17	U-0.03431	0.03442	0.03455	0.03477	0.03487	0.03500	0.03518	0.03542				
18	U-0.03631	0.03642	0.03655	0.03677	0.03687	0.03700	0.03718	0.03742				
19	U-0.03831	0.03842	0.03855	0.03877	0.03887	0.03900	0.03918	0.03942				
20	U-0.04031	0.04042	0.04055	0.04077	0.04087	0.04100	0.04118	0.04142				
21	U-0.04231	0.04242	0.04255	0.04277	0.04287	0.04300	0.04318	0.04342				
22	U-0.04431	0.04442	0.04455	0.04477	0.04487	0.04500	0.04518	0.04542				
23	U-0.04631	0.04642	0.04655	0.04677	0.04687	0.04700	0.04718	0.04742				
24	U-0.04831	0.04842	0.04855	0.04877	0.04887	0.04900	0.04918	0.04942				
25	U-0.05031	0.05042	0.05055	0.05077	0.05087	0.05100	0.05118	0.05142				
26	U-0.05231	0.05242	0.05255	0.05277	0.05287	0.05300	0.05318	0.05342				
27	U-0.05431	0.05442	0.05455	0.05477	0.05487	0.05500	0.05518	0.05542				
28	U-0.05631	0.05642	0.05655	0.05677	0.05687	0.05700	0.05718	0.05742				
29	U-0.05831	0.05842	0.05855	0.05877	0.05887	0.05900	0.05918	0.05942				
30	U-0.06031	0.06042	0.06055	0.06077	0.06087	0.06100	0.06118	0.06142				
31	U-0.06231	0.06242	0.06255	0.06277	0.06287	0.06300	0.06318	0.06342				
32	U-0.06431	0.06442	0.06455	0.06477	0.06487	0.06500	0.06518	0.06542				
33	U-0.06631	0.06642	0.06655	0.06677	0.06687	0.06700	0.06718	0.06742				
34	U-0.06831	0.06842	0.06855	0.06877	0.06887	0.06900	0.06918	0.06942				
35	U-0.07031	0.07042	0.07055	0.07077	0.07087	0.07100	0.07118	0.07142				
36	U-0.07231	0.07242	0.07255	0.07277	0.07287	0.07300	0.07318	0.07342				
37	U-0.07431	0.07442	0.07455	0.07477	0.07487	0.07500	0.07518	0.07542				
38	U-0.07631	0.07642	0.07655	0.07677	0.07687	0.07700	0.07718	0.07742				
39	U-0.07831	0.07842	0.07855	0.07877	0.07887	0.07900	0.07918	0.07942				
40	U-0.08031	0.08042	0.08055	0.08077	0.08087	0.08100	0.08118	0.08142				
41	U-0.08231	0.08242	0.08255	0.08277	0.08287	0.08300	0.08318	0.08342				
42	U-0.08431	0.08442	0.08455	0.08477	0.08487	0.08500	0.08518	0.08542				
43	U-0.08631	0.08642	0.08655	0.08677	0.08687	0.08700	0.08718	0.08742				
44	U-0.08831	0.08842	0.08855	0.08877	0.08887	0.08900	0.08918	0.08942				
45	U-0.09031	0.09042	0.09055	0.09077	0.09087	0.09100	0.09118	0.09142				
46	U-0.09231	0.09242	0.09255	0.09277	0.09287	0.09300	0.09318	0.09342				
47	U-0.09431	0.09442	0.09455	0.09477	0.09487	0.09500	0.09518	0.09542				
48	U-0.09631	0.09642	0.09655	0.09677	0.09687	0.09700	0.09718	0.09742				
49	U-0.09831	0.09842	0.09855	0.09877	0.09887	0.09900	0.09918	0.09942				
50	U-0.10031	0.10042	0.10055	0.10077	0.10087	0.10100	0.10118	0.10142				

(Continued)

Table 7 - $\Delta f = 0.00175$ (Continued)

CUTOFF FREQ. (1/M)	HEIGHTS	WEIGHTS	HEIGHTS	WEIGHTS	HEIGHTS	WEIGHTS	HEIGHTS	WEIGHTS
0.00200	0.00250	0.00300	0.00350	0.00400	0.00450	0.00500	0.00550	0.01000
0.00375	0.00425	0.00475	0.00525	0.00575	0.00625	0.00675	0.00725	0.01175
500.	400.	300.	250.	200.	150.	100.	100.	100.
267.	235.	197.	174.	148.	119.	85.	85.	85.
N	N	N	N	N	N	N	N	N
0	1	2	3	4	5	6	7	8
0.05750000	0.06750000	0.07750000	0.08750000	0.09750000	0.10750000	0.11750000	0.12750000	0.13750000
0.05546599	0.06426717	0.07306835	0.08186953	0.09067071	0.09947189	0.10827307	0.11707425	0.12587543
0.04973795	0.05514037	0.06054279	0.06594521	0.07134763	0.07675005	0.08215247	0.08755489	0.09295731
0.04079158	0.04175383	0.04271608	0.04367833	0.04464058	0.04560283	0.04656508	0.04752733	0.04848958
0.03007463	0.02837149	0.02666835	0.02496521	0.02326207	0.02155893	0.01985579	0.01815265	0.01644951
0.01881830	0.01475577	0.01069324	0.00663071	0.00256818	0.00100565	0.00044312	0.00038059	0.00031806
0.00892528	0.00780707	0.00668886	0.00557065	0.00445244	0.00333423	0.00221602	0.00109781	0.00097960
0.006643196	0.005897379	0.005151562	0.004405745	0.003659928	0.002914111	0.002168294	0.001422477	0.001204260
0.0043672925	0.003822344	0.003277396	0.002732448	0.002187500	0.001642552	0.001097604	0.000552656	0.000434440
0.002992925	0.002618127	0.002243310	0.001868493	0.001493676	0.001118859	0.000744042	0.000369225	0.000251009
0.001999462	0.001681213	0.001363064	0.001044915	0.000726766	0.000408617	0.000090468	0.000072319	0.000054170
0.0013995925	0.001104043	0.000808194	0.000512345	0.000216596	0.000100847	0.000085098	0.000069349	0.000053599
0.000817541	0.000633722	0.000449903	0.000266084	0.000182265	0.000098446	0.000082697	0.000066948	0.000051199
0.00284201	0.00208351	0.00132501	0.00056651	0.00030801	0.00014951	0.00009101	0.00007251	0.00005401
0.00024865	0.000271014	0.000293378	0.000315742	0.000338106	0.000360470	0.000382834	0.000405198	0.000427562
0.00241012	0.00551033	0.00861054	0.01171075	0.01481096	0.01791117	0.02101138	0.02411159	0.02721180
0.00394181	0.00394181	0.00394181	0.00394181	0.00394181	0.00394181	0.00394181	0.00394181	0.00394181
0.00421400	0.00171447	0.00415576	0.00410712	0.00405848	0.00400984	0.00396120	0.00391256	0.00386392
0.00361092	0.00044097	0.00356232	0.00351368	0.00346504	0.00341640	0.00336776	0.00331912	0.00327048
0.00245005	0.00197422	0.00192558	0.00187694	0.00182830	0.00177966	0.00173102	0.00168238	0.00163374
0.00190129	0.00263441	0.00244440	0.00225439	0.00206438	0.00187437	0.00168436	0.00149435	0.00130434
0.00143333	0.00133333	0.00123333	0.00113333	0.00103333	0.00093333	0.00083333	0.00073333	0.00063333
0.0011769	0.00081641	0.00045593	0.00009545	0.00003497	0.00007449	0.00001399	0.00005351	0.00009303
0.00123213	0.00081641	0.00045593	0.00009545	0.00003497	0.00007449	0.00001399	0.00005351	0.00009303
0.00078209	0.00099922	0.00116658	0.00133394	0.00150130	0.00166866	0.00183602	0.00200338	0.00217074
0.00031596	0.00085340	0.00073012	0.00060684	0.00048356	0.00036028	0.00023700	0.00011372	0.00009044
0.0005423	0.00052560	0.00023073	0.00016149	0.00009225	0.00002301	0.00005377	0.00008453	0.00011529
0.00027114	0.00017448	0.00016903	0.00016358	0.00015813	0.00015268	0.00014723	0.00014178	0.00013633
0.00033292	0.00007409	0.00033282	0.00033272	0.00033262	0.00033252	0.00033242	0.00033232	0.00033222
0.00027927	0.00018727	0.00018720	0.00018713	0.00018706	0.00018699	0.00018692	0.00018685	0.00018678
0.00017096	0.00017394	0.00017359	0.00017324	0.00017289	0.00017254	0.00017219	0.00017184	0.00017149
0.00006648	0.00007029	0.00007425	0.00007821	0.00008217	0.00008613	0.00009009	0.00009405	0.00009801
0.00000417	0.00001375	0.00001872	0.00002369	0.00002866	0.00003363	0.00003860	0.00004357	0.00004854
0.00000417	0.00001235	0.00001631	0.00002027	0.00002423	0.00002819	0.00003215	0.00003611	0.00004007
0.00000435	0.00000210	0.00000489	0.00000768	0.00001047	0.00001326	0.00001605	0.00001884	0.00002163
0.0001141	0.00009169	0.00006927	0.00004685	0.00002443	0.00001201	0.00005301	0.00009401	0.00013501
0.00016168	0.00015673	0.00015178	0.00014683	0.00014188	0.00013693	0.00013198	0.00012703	0.00012208
0.00017489	0.00017100	0.00016711	0.00016322	0.00015933	0.00015544	0.00015155	0.00014766	0.00014377
0.00014147	0.00014147	0.00014147	0.00014147	0.00014147	0.00014147	0.00014147	0.00014147	0.00014147
0.00004534	0.00005267	0.00006000	0.00006733	0.00007466	0.00008199	0.00008932	0.00009665	0.00010398
0.00000486	0.00005241	0.000010335	0.000014337	0.000018339	0.000022341	0.000026343	0.000030345	0.000034347
0.00011299	0.00015108	0.00020922	0.00026736	0.00032550	0.00038364	0.00044178	0.00049992	0.00055806
0.00017357	0.00014764	0.00015478	0.00016192	0.00016906	0.00017620	0.00018334	0.00019048	0.00019762
0.00019321	0.00018578	0.00017835	0.00017092	0.00016349	0.00015606	0.00014863	0.00014120	0.00013377
0.00017071	0.00012351	0.00015388	0.00016401	0.00017414	0.00018427	0.00019440	0.00020453	0.00021466
0.00011616	0.00003592	0.00005693	0.00007794	0.00009895	0.00011996	0.00014097	0.00016198	0.00018299
0.000004685	0.000004685	0.000004685	0.000004685	0.000004685	0.000004685	0.000004685	0.000004685	0.000004685
0.00021134	0.00021134	0.00021134	0.00021134	0.00021134	0.00021134	0.00021134	0.00021134	0.00021134
0.00006484	0.00011447	0.00011447	0.00011447	0.00011447	0.00011447	0.00011447	0.00011447	0.00011447

Table 8 - $\Delta f = 0.00200$

CUTOFF FREQ. (1/4)	0.00000	0.00013	0.00020	0.00025	0.00033	0.00040	0.00050
TERMIN FAC. (1/4)	0.00200	0.00213	0.00220	0.00225	0.00233	0.00240	0.00250
CUTOFF WAVELENGTH (1)	10000.	7500.	5000.	4000.	3000.	2500.	2000.
TERMIN WAVELENGTH (1)	476.	469.	455.	444.	429.	417.	400.
N	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	0.02000000	0.02200000	0.02400000	0.02600000	0.02800000	0.03000000	0.03200000
1	0.01198713	0.02183954	0.02380742	0.02478167	0.02646667	0.02771001	0.02945378
2	0.01194493	0.02119803	0.022321721	0.02413542	0.02641033	0.02740534	0.02866368
3	0.01846549	0.02115346	0.022226654	0.02442699	0.02642570	0.02744250	0.02869813
4	0.01191968	0.020233186	0.022028410	0.02167771	0.02278253	0.02362154	0.02480197
5	0.01197453	0.01925414	0.019923323	0.01996228	0.02079191	0.021139167	0.02180990
6	0.01197422	0.01707866	0.01763450	0.01800582	0.01863598	0.01887702	0.01924991
7	0.01194279	0.01534585	0.01568287	0.01588044	0.01610286	0.01618357	0.01619145
8	0.01199991	0.01351499	0.01363459	0.01366135	0.01369671	0.01341957	0.01299291
9	0.01150846	0.01164643	0.01155402	0.01142404	0.01107778	0.01068988	0.009993144
10	0.01100000	0.00997444	0.00923880	0.00923880	0.00866025	0.00809917	0.00707107
11	0.00951629	0.00799337	0.00755591	0.00716930	0.00640773	0.00571213	0.00450522
12	0.00708704	0.00653302	0.00574168	0.00526919	0.00438003	0.00358991	0.00230272
13	0.0047176	0.00502220	0.00440784	0.00358017	0.00282106	0.00179786	0.00050560
14	0.00450492	0.00343241	0.00336664	0.00213093	0.00115773	0.00034944	0.00007109
15	0.00339531	0.00253347	0.00148830	0.00093676	0.00000000	-0.00075115	-0.00183753
16	0.00242573	0.00151721	0.00051724	-0.00000000	-0.0005803	-0.0015121	-0.00282573
17	0.00140294	0.00071601	-0.00040543	-0.00068844	-0.00143613	-0.0019444	-0.00246489
18	0.00092806	0.00009414	-0.00074489	-0.00114931	-0.00176528	-0.00218930	-0.00267594
19	0.00038671	-0.00035731	-0.00107974	-0.00140888	-0.00188456	-0.00218277	-0.00246585
20	0.00000000	-0.00065375	-0.00124732	-0.00150053	-0.00183776	-0.00201820	-0.00212207
21	-0.00027472	-0.00082174	-0.00128016	-0.00146017	-0.00174018	-0.00174834	-0.00170761
22	-0.00049474	-0.00097853	-0.00121025	-0.00132427	-0.00142553	-0.00142208	-0.00127715
23	-0.00052198	-0.00085140	-0.00093720	-0.00112766	-0.00114346	-0.00108178	-0.00087428
24	-0.00052799	-0.00076131	-0.00068570	-0.00090167	-0.00085747	-0.00076131	-0.00058999
25	-0.000494534	-0.00063374	-0.00048536	-0.00067277	-0.00059405	-0.00048504	-0.00028250
26	-0.00040429	-0.00048874	-0.00049084	-0.00046169	-0.00037137	-0.00026777	-0.00007817
27	-0.00033327	-0.00033885	-0.00031446	-0.00028300	-0.00020006	-0.00011529	-0.00002670
28	-0.00019638	-0.00020382	-0.00017346	-0.00014527	-0.00008356	-0.00002575	-0.00004398
29	-0.00009155	-0.00008459	-0.00006757	-0.00005150	-0.00001927	0.00000000	0.00000000
30	0.00000000	-0.00000000	-0.00000000	-0.00000000	-0.00000000	0.00000000	0.00000000
31	0.00007371	0.00005948	0.00003177	0.00001456	0.00000152	0.000003799	0.000004363
32	0.00017655	0.00009109	0.00003339	0.00000000	-0.00005412	-0.00009109	-0.00012655
33	0.00015791	0.00009724	0.00001112	-0.00003455	-0.00010410	-0.00014649	-0.00017657
34	0.00014863	0.00008274	-0.00002412	-0.00007977	-0.00015490	-0.00019380	-0.00020588
35	0.00014164	0.00005434	-0.00001197	-0.00002733	-0.00019802	-0.00022584	-0.00021125
36	0.00014062	0.00001502	-0.00001345	-0.00001697	-0.00002273	-0.00002387	-0.00001935
37	0.00010969	-0.00002251	-0.00001501	-0.00002090	-0.00002409	-0.00002320	-0.00001562
38	0.00007327	-0.00000615	-0.000018269	-0.000021705	-0.00002350	-0.00002077	-0.00001074
39	0.00003650	-0.00000943	-0.00001985	-0.000022256	-0.00001581	-0.000017021	-0.00000529
40	0.00000000	-0.000012473	-0.000020182	-0.000021221	-0.000018378	-0.000012473	-0.00000000
41	-0.00000000	-0.000010361	-0.000012744	-0.00001928	-0.000014417	-0.000007705	0.00000000
42	-0.000005354	-0.000014331	-0.000016110	-0.000014008	-0.000010184	-0.000003247	0.000007866
43	-0.000004448	-0.000013744	-0.000014794	-0.000014411	-0.000006135	-0.00000474	0.000009779
44	-0.000007495	-0.000012350	-0.000012744	-0.000011537	-0.000009116	-0.000003171	0.000010316
45	-0.000007349	-0.000010361	-0.000010265	-0.000008404	-0.000005774	-0.000004718	0.00009402
46	-0.000004529	-0.000009034	-0.000005524	-0.000003088	-0.000001678	0.000005194	0.00007971
47	-0.000005194	-0.000005625	-0.000003125	-0.000001138	-0.000002372	0.000004608	0.00006814
48	-0.000003637	-0.000003365	-0.000001369	-0.000000345	-0.000001366	0.000003165	0.00003537
49	-0.000001745	-0.000001140	-0.000000331	-0.000000000	-0.000000345	0.000001313	0.00001504
50	-0.000000000	-0.000000000	-0.000000000	-0.000000000	-0.000000000	0.000000000	0.000000000

(Continued)

Table 8 - $\Delta f = 0.00200$ (Continued)

CUTOFF FREQ. (1/4) -	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	0.031429457	0.000057	0.000067	0.000090	0.000100	0.000111	0.000125	0.000143	0.000167			
1	0.031037774	0.000257	0.000267	0.000280	0.000300	0.000311	0.000325	0.000343	0.000367			
2	0.02948637	0.00048637	0.00073945	0.001000	0.001250	0.001500	0.001750	0.002000	0.002250			
3	0.02803426	0.00073945	0.001000	0.001250	0.001500	0.001750	0.002000	0.002250	0.002500			
4	0.02658254	0.001000	0.001250	0.001500	0.001750	0.002000	0.002250	0.002500	0.002750			
5	0.02513082	0.001250	0.001500	0.001750	0.002000	0.002250	0.002500	0.002750	0.003000			
6	0.02367910	0.001500	0.001750	0.002000	0.002250	0.002500	0.002750	0.003000	0.003250			
7	0.02222738	0.001750	0.002000	0.002250	0.002500	0.002750	0.003000	0.003250	0.003500			
8	0.02077566	0.002000	0.002250	0.002500	0.002750	0.003000	0.003250	0.003500	0.003750			
9	0.01932394	0.002250	0.002500	0.002750	0.003000	0.003250	0.003500	0.003750	0.004000			
10	0.01787222	0.002500	0.002750	0.003000	0.003250	0.003500	0.003750	0.004000	0.004250			
11	0.01642050	0.002750	0.003000	0.003250	0.003500	0.003750	0.004000	0.004250	0.004500			
12	0.01496878	0.003000	0.003250	0.003500	0.003750	0.004000	0.004250	0.004500	0.004750			
13	0.01351706	0.003250	0.003500	0.003750	0.004000	0.004250	0.004500	0.004750	0.005000			
14	0.01206534	0.003500	0.003750	0.004000	0.004250	0.004500	0.004750	0.005000	0.005250			
15	0.01061362	0.003750	0.004000	0.004250	0.004500	0.004750	0.005000	0.005250	0.005500			
16	0.00916190	0.004000	0.004250	0.004500	0.004750	0.005000	0.005250	0.005500	0.005750			
17	0.00771018	0.004250	0.004500	0.004750	0.005000	0.005250	0.005500	0.005750	0.006000			
18	0.00625846	0.004500	0.004750	0.005000	0.005250	0.005500	0.005750	0.006000	0.006250			
19	0.00480674	0.004750	0.005000	0.005250	0.005500	0.005750	0.006000	0.006250	0.006500			
20	0.00335502	0.005000	0.005250	0.005500	0.005750	0.006000	0.006250	0.006500	0.006750			
21	0.00190330	0.005250	0.005500	0.005750	0.006000	0.006250	0.006500	0.006750	0.007000			
22	0.00045158	0.005500	0.005750	0.006000	0.006250	0.006500	0.006750	0.007000	0.007250			
23	0.00000000	0.005750	0.006000	0.006250	0.006500	0.006750	0.007000	0.007250	0.007500			
24	0.00000000	0.006000	0.006250	0.006500	0.006750	0.007000	0.007250	0.007500	0.007750			
25	0.00000000	0.006250	0.006500	0.006750	0.007000	0.007250	0.007500	0.007750	0.008000			
26	0.00000000	0.006500	0.006750	0.007000	0.007250	0.007500	0.007750	0.008000	0.008250			
27	0.00000000	0.006750	0.007000	0.007250	0.007500	0.007750	0.008000	0.008250	0.008500			
28	0.00000000	0.007000	0.007250	0.007500	0.007750	0.008000	0.008250	0.008500	0.008750			
29	0.00000000	0.007250	0.007500	0.007750	0.008000	0.008250	0.008500	0.008750	0.009000			
30	0.00000000	0.007500	0.007750	0.008000	0.008250	0.008500	0.008750	0.009000	0.009250			
31	0.00000000	0.007750	0.008000	0.008250	0.008500	0.008750	0.009000	0.009250	0.009500			
32	0.00000000	0.008000	0.008250	0.008500	0.008750	0.009000	0.009250	0.009500	0.009750			
33	0.00000000	0.008250	0.008500	0.008750	0.009000	0.009250	0.009500	0.009750	0.010000			
34	0.00000000	0.008500	0.008750	0.009000	0.009250	0.009500	0.009750	0.010000	0.010250			
35	0.00000000	0.008750	0.009000	0.009250	0.009500	0.009750	0.010000	0.010250	0.010500			
36	0.00000000	0.009000	0.009250	0.009500	0.009750	0.010000	0.010250	0.010500	0.010750			
37	0.00000000	0.009250	0.009500	0.009750	0.010000	0.010250	0.010500	0.010750	0.011000			
38	0.00000000	0.009500	0.009750	0.010000	0.010250	0.010500	0.010750	0.011000	0.011250			
39	0.00000000	0.009750	0.010000	0.010250	0.010500	0.010750	0.011000	0.011250	0.011500			
40	0.00000000	0.010000	0.010250	0.010500	0.010750	0.011000	0.011250	0.011500	0.011750			
41	0.00000000	0.010250	0.010500	0.010750	0.011000	0.011250	0.011500	0.011750	0.012000			
42	0.00000000	0.010500	0.010750	0.011000	0.011250	0.011500	0.011750	0.012000	0.012250			
43	0.00000000	0.010750	0.011000	0.011250	0.011500	0.011750	0.012000	0.012250	0.012500			
44	0.00000000	0.011000	0.011250	0.011500	0.011750	0.012000	0.012250	0.012500	0.012750			
45	0.00000000	0.011250	0.011500	0.011750	0.012000	0.012250	0.012500	0.012750	0.013000			
46	0.00000000	0.011500	0.011750	0.012000	0.012250	0.012500	0.012750	0.013000	0.013250			
47	0.00000000	0.011750	0.012000	0.012250	0.012500	0.012750	0.013000	0.013250	0.013500			
48	0.00000000	0.012000	0.012250	0.012500	0.012750	0.013000	0.013250	0.013500	0.013750			
49	0.00000000	0.012250	0.012500	0.012750	0.013000	0.013250	0.013500	0.013750	0.014000			
50	0.00000000	0.012500	0.012750	0.013000	0.013250	0.013500	0.013750	0.014000	0.014250			

(Continued)

Table 10 - $\Delta f = 0.00300$

CUTOFF FREQ. (1/M)	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300
1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300
1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.
0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300	0.00300
1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000
333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.	333.

(Continued)

Table 10 - $\Delta f = 0.00300$ (Continued)

CUTOFF FREQ.	(1/M)	N	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0.00057	(1/M)	0	0.04142457	0.04333311	0.030040	0.001100	0.001111	0.001425	0.00143	0.00167		
0.00157	(1/M)	1	0.01044780	0.02227455	0.00390	0.00400	0.00411	0.00425	0.00443	0.00487		
0.00257	(1/M)	2	0.00377605	0.03227157	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00357	(1/M)	3	0.002352063	0.04354000	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00457	(1/M)	4	0.001621584	0.02208362	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00557	(1/M)	5	0.0011621584	0.01556749	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00657	(1/M)	6	0.000808393	0.00958393	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00757	(1/M)	7	0.000571300	0.00654635	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00857	(1/M)	8	0.000419138	0.00470317	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.00957	(1/M)	9	0.000304643	0.003415	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01057	(1/M)	10	0.00242790	0.00324524	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01157	(1/M)	11	0.0017318	0.00364454	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01257	(1/M)	12	0.001318	0.00334454	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01357	(1/M)	13	0.0009834	0.00334454	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01457	(1/M)	14	0.000740174	0.00263154	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01557	(1/M)	15	0.000570310	0.00178343	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01657	(1/M)	16	0.000419102	0.00100511	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01757	(1/M)	17	0.000304348	0.00062180	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01857	(1/M)	18	0.00022114	0.0003797	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.01957	(1/M)	19	0.00016214	0.00024003	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02057	(1/M)	20	0.000100000	0.000100000	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02157	(1/M)	21	0.00004288	0.00012162	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02257	(1/M)	22	0.000029394	0.00012487	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02357	(1/M)	23	0.000030742	0.00012965	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02457	(1/M)	24	0.000035450	0.00014130	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02557	(1/M)	25	0.000034613	0.000128574	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02657	(1/M)	26	0.000027979	0.00018534	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02757	(1/M)	27	0.000018216	0.00007125	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02857	(1/M)	28	0.000008031	0.00002717	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.02957	(1/M)	29	0.00000234	0.00000892	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03057	(1/M)	30	0.000005149	0.00001124	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03157	(1/M)	31	0.000000396	0.00000392	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03257	(1/M)	32	0.000004656	0.00000548	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03357	(1/M)	33	0.000011245	0.00001252	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03457	(1/M)	34	0.000000237	0.000001964	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03557	(1/M)	35	0.000000442	0.000003191	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03657	(1/M)	36	0.000000559	0.000002241	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03757	(1/M)	37	0.000000418	0.00000230	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03857	(1/M)	38	0.000001902	0.00000384	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.03957	(1/M)	39	0.00001176	0.0000204	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04057	(1/M)	40	0.000003946	0.000007474	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04157	(1/M)	41	0.000005733	0.000008063	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04257	(1/M)	42	0.000006420	0.000006495	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04357	(1/M)	43	0.000005497	0.00000473	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04457	(1/M)	44	0.000003932	0.000002674	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04557	(1/M)	45	0.000002127	0.000000930	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04657	(1/M)	46	0.000000627	0.000000149	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04757	(1/M)	47	0.000000176	0.000000174	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04857	(1/M)	48	0.000000145	0.000000044	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.04957	(1/M)	49	0.000000548	0.000002110	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		
0.05057	(1/M)	50	0.000001734	0.000003144	0.0047642	0.0049800	0.00511	0.00525	0.00549	0.00600		

(Continued)

Table 10 - Δf = 0.00300 (Continued)

CUTOFF FREQ. (1/4)	0.00200	0.00250	0.00333	0.00400	0.00500	0.00647	0.00800	0.01000	0.01300
TERMIN C.V.A. (1/4)	500.	400.	300.	250.	200.	150.	125.	100.	77.
CUTOFF WAVL. (M)	200.	192.	158.	143.	125.	103.	91.	77.	
TERMIN WAVL. (M)	200.	192.	158.	143.	125.	103.	91.	77.	
0	0.07000000	0.03000000	0.09666667	0.11000000	0.13000000	0.16333333	0.19000000	0.22799999	0.27999999
1	0.06617744	0.04446337	0.08718404	0.09630876	0.10799177	0.12144002	0.12824530	0.12745463	0.12729869
2	0.05545331	0.03282492	0.06522780	0.06156580	0.05563931	0.03194911	0.00595107	0.00289869	0.00307159
3	0.04342501	0.02048864	0.03211490	0.02114408	0.00317503	0.02820137	0.00393494	0.00065176	0.00052363
4	0.03139720	0.00718134	0.001703391	0.000633191	0.002305083	0.002870482	0.00063302	0.00085085	0.00085085
5	0.01936949	0.00240000	0.001355946	0.00057866	0.002057866	0.002057866	0.002057866	0.001745649	0.001745649
6	0.00733119	0.00102647	0.001172670	0.001556749	0.002733119	0.017254699	0.007793209	0.011092338	0.011092338
7	0.00422424	0.001324152	0.001147427	0.00325025	0.01058710	0.00599399	0.011071127	0.01745649	0.01745649
8	0.01063054	0.00232396	0.004577005	0.008577005	0.01633056	0.0030660	0.0057005	0.01043056	0.01043056
9	0.004871873	0.00528245	0.00469572	0.00895934	0.00209798	0.00786271	0.00483380	0.00949571	0.00949571
10	0.00509296	0.00000000	0.00485711	0.00509296	0.00509296	0.00186415	0.00507246	0.00507246	0.00507246
11	0.02133755	0.0033677	0.00503527	0.00944954	0.00557159	0.00572983	0.00342107	0.00198526	0.00198526
12	0.01339210	0.0028444	0.00139210	0.00364456	0.0139210	0.0139210	0.00364456	0.00139210	0.00139210
13	0.00244927	0.00331350	0.00149991	0.00338775	0.00226269	0.00287127	0.00192039	0.00041208	0.00041208
14	0.00326176	0.00154834	0.00024523	0.00119590	0.00600174	0.0020715	0.0023708	0.00041208	0.00041208
15	0.00179343	0.00000000	0.00178343	0.00079499	0.0073812	0.00073812	0.00073812	0.00178343	0.00178343
16	0.0079499	0.00079499	0.00055012	0.00178343	0.00079499	0.00134510	0.00124631	0.00079499	0.00079499
17	0.0004936	0.00084072	0.00029508	0.00075372	0.000680126	0.00116109	0.0002636	0.00057410	0.00057410
18	0.00023178	0.00046554	0.00045490	0.00074987	0.00023178	0.00045490	0.00050426	0.00045490	0.00045490
19	0.00019727	0.00012910	0.00021059	0.00014284	0.00011476	0.00015119	0.00001723	0.00005127	0.00005127
20	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
21	0.0013526	0.0009324	0.00033793	0.00010302	0.00006288	0.00015425	0.00001245	0.00003793	0.00003793
22	0.00012061	0.00025264	0.00022281	0.00004156	0.00012061	0.00001370	0.00026240	0.00023671	0.00023671
23	0.00025487	0.00031342	0.0003248	0.00028117	0.0002875	0.00031085	0.00007498	0.00007498	0.00007498
24	0.00021093	0.00041093	0.00021093	0.00034130	0.00021093	0.00034130	0.00034130	0.00021093	0.00021093
25	0.00033279	0.00000000	0.00004702	0.00013785	0.00013785	0.00021928	0.00013785	0.00033279	0.00033279
26	0.000333619	0.00020007	0.00026452	0.00015453	0.00033419	0.00031777	0.00030328	0.00005325	0.00005325
27	0.00029078	0.00029078	0.00030428	0.00029679	0.00019823	0.00002395	0.00015948	0.00030428	0.00030428
28	0.00088031	0.00024718	0.00017391	0.00021026	0.00008031	0.00025422	0.00021026	0.00009031	0.00009031
29	0.0004476	0.00012277	0.00000547	0.00001439	0.00020310	0.00009966	0.00013565	0.00017809	0.00017809
30	0.00011024	0.00000000	0.00011024	0.00011024	0.00011024	0.00011024	0.00011024	0.00011024	0.00011024
31	0.00011024	0.00006117	0.00010403	0.00010374	0.00002429	0.00009145	0.00007913	0.00005437	0.00005437
32	0.00005306	0.00005306	0.00004146	0.00003279	0.00005306	0.00001160	0.00003279	0.00005306	0.00005306
33	0.00000437	0.00001225	0.00000101	0.00000301	0.00000977	0.00001284	0.00001098	0.00000101	0.00000101
34	0.00000366	0.00003177	0.00001474	0.00002087	0.00000366	0.00000839	0.00001063	0.00002313	0.00002313
35	0.00002006	0.00000000	0.00005196	0.00004442	0.00004842	0.00004158	0.00004842	0.00000006	0.00000006
36	0.00005972	0.00004339	0.00005972	0.00002281	0.00005972	0.0005972	0.00002281	0.00005972	0.00005972
37	0.00004953	0.00004359	0.00001400	0.00004586	0.00000689	0.00002931	0.00006536	0.00004674	0.00004674
38	0.00004447	0.00004917	0.00005163	0.00007364	0.00008447	0.00008447	0.00001463	0.00004304	0.00004304
39	0.00004493	0.00005614	0.00007291	0.00007266	0.00008147	0.00002231	0.00004956	0.0000291	0.0000291
40	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00007874	0.00000000	0.00000000	0.00000000
41	0.00004785	0.00004870	0.00002329	0.00004676	0.000064992	0.00005948	0.00000175	0.00009974	0.00009974
42	0.0000220	0.00006640	0.00003149	0.00006895	0.00006220	0.00003169	0.00001092	0.00003169	0.00003169
43	0.000054528	0.00005274	0.00005277	0.00002897	0.00004333	0.00005453	0.00005392	0.00004217	0.00004217
44	0.00003233	0.00002349	0.00003651	0.00001235	0.00003233	0.00001235	0.00001235	0.00003233	0.00003233
45	0.00000930	0.00000700	0.00000930	0.00002745	0.00002245	0.00002245	0.00002245	0.00000930	0.00000930
46	0.00000145	0.00000544	0.00000333	0.00000828	0.00000145	0.00000585	0.00000422	0.00000145	0.00000145
47	0.000000283	0.00000415	0.00000394	0.00000102	0.00000332	0.00000217	0.00000372	0.00000394	0.00000394
48	0.00001533	0.00001533	0.00001533	0.00000948	0.00001533	0.00001533	0.00001533	0.00001533	0.00001533
49	0.00002440	0.00001405	0.00001222	0.00002553	0.00000578	0.00000047	0.00001947	0.00001228	0.00001228
50	0.00000305	0.00000000	0.00000844	0.00002305	0.00002305	0.00003198	0.00002305	0.00002305	0.00002305

Table 11 - Δf = 0.00400 (Continued)

CUTOFF FREQ. (1/M)	0.00057	0.00347	0.00000	0.00100	0.00111	0.00125	0.00143	0.00167
TERMIN WAVL. (M)	1750.	1500.	1250.	1000.	900.	800.	700.	600.
CUTOFF WAVL. (M)	219.	214.	208.	200.	196.	190.	184.	176.
H	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS	WEIGHTS
0	0.05142857	0.05333333	0.05400000	0.05400000	0.05422222	0.05450000	0.05495713	0.05533333
1	0.04957531	0.05130484	0.05170848	0.05218216	0.05278104	0.05343300	0.05419598	0.05499554
2	0.04773732	0.04955634	0.05042432	0.05140373	0.05250831	0.05372784	0.05508369	0.05649178
3	0.04591324	0.04775413	0.04899883	0.05039883	0.05203335	0.053894867	0.05589269	0.05849803
4	0.04410938	0.04618034	0.04742114	0.04898861	0.05085575	0.052834504	0.05497748	0.05730502
5	0.04240854	0.04471982	0.04630544	0.04830981	0.05069861	0.052867745	0.05511738	0.05763594
6	0.04080561	0.04334495	0.04506928	0.04732118	0.04984671	0.05264252	0.05485490	0.05720857
7	0.03930386	0.04207166	0.04398515	0.04653386	0.04933856	0.05237475	0.05467799	0.05700857
8	0.03790305	0.04094632	0.04303785	0.04583519	0.04871258	0.05206493	0.05445220	0.05673189
9	0.03661192	0.04003641	0.04234413	0.04517965	0.04804179	0.05172107	0.05418820	0.05641220
10	0.03542736	0.03929514	0.04177946	0.04455431	0.04742594	0.05137489	0.05388200	0.05610593
11	0.03434703	0.03861507	0.04142262	0.04405998	0.04697339	0.05102811	0.05354200	0.05580998
12	0.03336703	0.03801750	0.04115262	0.04362427	0.04660692	0.05068593	0.05320750	0.05552307
13	0.03248578	0.03750427	0.04085353	0.04329870	0.04630076	0.05035906	0.05288410	0.05525190
14	0.03170115	0.03707112	0.04061510	0.04301247	0.04604173	0.05004233	0.05257120	0.05500000
15	0.03101000	0.03671082	0.04039000	0.04277497	0.04580000	0.04973744	0.05227071	0.05476533
16	0.03040475	0.03641082	0.04018218	0.04257117	0.04557499	0.04944369	0.05200000	0.05454490
17	0.02987966	0.03617091	0.04000000	0.04241175	0.04537449	0.04917479	0.05175000	0.05433307
18	0.02942393	0.03598504	0.03984754	0.04228170	0.04522812	0.04892812	0.05152229	0.05413370
19	0.02904658	0.03584716	0.03971528	0.04215208	0.04509660	0.04879272	0.05131377	0.05394355
20	0.02873675	0.03575349	0.03962496	0.04204000	0.04501951	0.04870011	0.05113277	0.05376755
21	0.02848035	0.03570369	0.03956493	0.04194572	0.04500000	0.04863352	0.05097977	0.05360466
22	0.02827337	0.03569307	0.03952632	0.04186431	0.04498244	0.04858244	0.05089157	0.05354644
23	0.02811380	0.0357167	0.03950000	0.04181288	0.04494342	0.04854528	0.05082619	0.05349274
24	0.02800199	0.03570437	0.03947300	0.04177974	0.04491074	0.04851000	0.05077147	0.05344000
25	0.02793000	0.03569000	0.03944000	0.04174000	0.04487300	0.04847774	0.05072750	0.05339890
26	0.02790511	0.03567380	0.03940528	0.04170196	0.04483000	0.04844786	0.05068511	0.05335849
27	0.02788000	0.03565780	0.03937000	0.04166424	0.04479000	0.04841968	0.05064422	0.05331829
28	0.02785524	0.03564200	0.03933300	0.04162722	0.04475000	0.04839212	0.05060374	0.05327829
29	0.02783063	0.03562643	0.03929573	0.04159092	0.04471000	0.04836546	0.05056341	0.05323861
30	0.02780621	0.03561100	0.03925828	0.04155476	0.04467000	0.04833900	0.05052316	0.05320000
31	0.02778200	0.03559574	0.03922074	0.04151864	0.04463000	0.04831274	0.05048299	0.05316124
32	0.02775800	0.03558068	0.03918320	0.04148256	0.04459000	0.04828664	0.05044274	0.05312264
33	0.02773424	0.03556584	0.03914574	0.04144652	0.04455000	0.04826064	0.05040249	0.05308344
34	0.02771072	0.03555112	0.03910828	0.04141064	0.04451000	0.04823474	0.05036224	0.05304424
35	0.02768736	0.03553664	0.03907082	0.04137480	0.04447000	0.04820894	0.05032299	0.05300500
36	0.02766416	0.03552232	0.03903336	0.04133904	0.04443000	0.04818324	0.05028374	0.05296576
37	0.02764104	0.03550816	0.03900000	0.04130336	0.04439000	0.04815764	0.05024449	0.05292652
38	0.02761800	0.03549416	0.03896664	0.04126776	0.04435000	0.04813214	0.05020524	0.05288728
39	0.02759504	0.03548032	0.03893328	0.04123232	0.04431000	0.04810674	0.05016599	0.05284804
40	0.02757216	0.03546664	0.03890000	0.04119704	0.04427000	0.04808144	0.05012674	0.05280880
41	0.02754944	0.03545312	0.03886664	0.04116192	0.04423000	0.04805614	0.05008749	0.05276956
42	0.02752688	0.03543976	0.03883328	0.04112696	0.04419000	0.04803094	0.05004824	0.05273032
43	0.02750448	0.03542664	0.03880000	0.04109216	0.04415000	0.04800584	0.05000899	0.05269108
44	0.02748224	0.03541376	0.03876664	0.04105752	0.04411000	0.04798084	0.05000000	0.05265184
45	0.02746016	0.03540112	0.03873328	0.04102304	0.04407000	0.04795584	0.05000000	0.05261260
46	0.02743824	0.03538872	0.03870000	0.04098872	0.04403000	0.04793094	0.05000000	0.05257336
47	0.02741648	0.03537648	0.03866664	0.04095456	0.04400000	0.04790614	0.05000000	0.05253412
48	0.02739488	0.03536448	0.03863328	0.04092048	0.04397000	0.04788144	0.05000000	0.05249488
49	0.02737344	0.03535272	0.03860000	0.04088656	0.04394000	0.04785684	0.05000000	0.05245564
50	0.02735216	0.03534112	0.03856664	0.04085280	0.04391000	0.04783234	0.05000000	0.05241640

(Continued)

