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Digital Analysis of Liquid Sloshing In Rotationally Symmetric Tanks Under Weak Gravitational Fields



# UNIDEV, INC. HOLIDAY OFFICE CENTER, HUNTSVILLE, ALABAMA

Digital Analysis of Liquid Sloshing In Rotationally Symmetric Tanks Under Weak Gravitational Fields

Volume II

# COMPUTATIONAL APPLICATION

by

T. S. Chandler and L. L. Fontenot UNIDEV, INC. Huntsville, Alabama

March 1970

Contract No. NAS8-21272 UNIDEV Report UR-00010

# Submitted to

George C. Marshall Space Flight Center National Aeronautics and Space Administration Huntsville, Alabama 35812

# DIGITAL ANALYSIS OF LIQUID SLOSHING IN ROTATIONALLY SYMMETRIC TANKS UNDER WEAK GRAVITATIONAL FIELDS

# Volume II ·

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#### FOREWORD

This report was prepared by UNIDEV, INC., Huntsville, Alabama, under Contract NAS8-21272 for the George C. Marshall Space Flight Center of the National Aeronautics and Space Administration. The work was administered under technical direction of the Aero-Astrodynamics Laboratory, George C. Marshall Space Flight Center, with Mr. Frank Bugg, acting as Project Manager.

This document deals with the computational aspects of the problem. Theoretical considerations are presented in Volume I.

Technical contributions and helpful suggestions were made by Dr. D. O. Lomen, University of Arizona.

This study was executed under the direction of Dr. L. L. Fontenot, Program Manager and Principal Investigator; Mr. T. S. Chandler developed the Digital Computer Program described herein.

# ABSTRACT

This document describes the Digital Computer Program used to determine eigenfrequencies, eigenfunctions, forces, and moments for propellant "sloshing" in rotationally symmetric tanks under weak gravitational fields. The description of the analysis is given in /l/.

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# INTRODUCTION

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# NOTATIONS\*

η.	Total free surface displacement.
n <b>'</b>	Free surface displacement in the absence of surface tension.
ζ.	Free surface displacement due to surface tension and contact angle effects.
(SF <sub>01</sub> )y	Total force resulting from action of liquid on the tank wall(s) in the y(or x <sub>2</sub> )-direction.
F <sup>1</sup> <sub>2</sub>	Force resulting from action of liquid on the tank wall(s) in the x <sub>2</sub> -direction, in the absence of surface tension.
F <sub>y</sub>	Force resulting from action of liquid on the tank wall(s) in the $y(or x_2)$ -direction, due to surface tension and contact angle effects.
( $\delta \overline{F}_{0l})_z$	Total force resulting from action of liquid on the tank wall(s) in the $z(or x_3)$ -direction.
F <sup>'</sup> 3	Force resulting from action of liquid on the tank wall(s) in the x <sub>3</sub> -direction, in the absence of surface tension.
F <sub>2</sub>	Force resulting from action of liquid on the tank wall(s) in the x <sub>3</sub> -direction, due to surface tension and contact angle effects.
( $\delta \overline{N}_{0l})_{x}$	Total moment of the forces exerted on the tank wall(s) about the x(or x <sub>l</sub> ) axis.
Tl	Moment of the forces exerted on the tank wall(s) about the x <sub>l</sub> -axis, in the absence of surface tension.
Ту	Moment of the forces exerted on the tank wall(s) about the $x(\text{or } x_1)$ axis, due to surface tension and contact angle effects.
<sup>q</sup> n	Time dependent amplitudes of free surface dis- placement Fourier expansion.
Berg Mandessan (10) - <sup>Man</sup> Paula Strategy (10) - <sup>Man</sup> Pa	
* See /2/	for notations not given herein.

Time dependent amplitudes of free surface disξ<sub>n</sub> placement Fourier expansion, in the absence of surface tension. Time dependent amplitudes of free surface disλn placement Fourier expansion, corresponding to surface tension and contact angle effects. Acceleration in the x\_-direction. α2 Acceleration in the x3-direction (assumed constant). α3 D Angular acceleration of tank about the x2-axis. Mass of the liquid. М Bond Number =  $\rho \alpha_3 a^2 / \sigma$ Bn V Undisturbed volume of the liquid. Surface tension. σ Density of the liquid. ρ Distance from point B to the z-axis (see Fig. 1). а Polar coordinates. r, 0 Contact angle. γ Distance from the center of gravity of the liquid to the undisturbed free surface, in the absence L of surface tension. Distance from the center of gravity of the liquid L to an arbitrary point along an extension of the line AC (see Fig. 1), in the absence of surface tension. Angle between the tangent line and local horizontal β (see Fig. 1).  $^{\Phi}$ n Antisymmetric eigenfunctions associated with the "high-g" eigenoscillation problem. Eigenfrequencies ω<sub>n</sub> Non-dimensional parameter =  $L\omega_p^2/\alpha_3$ Кn

 $b_n, h_n, \gamma_n, I_{11}$  $A_{nm}^{*}, B_{nm}^{*}, a_{n}^{*}$ <sup>\*</sup>,c<sup>\*</sup>,e<sup>\*</sup>  $f_n^*, g_n^*, h_n^*$ <sup>\*</sup>,<sup>B</sup>,<sup>β</sup>nm

Liquid parameters associated with the "high-g" slosh problem  $/_2$  / defined in (1.8).

Additional liquid parameters resulting from surface tension and contact angle effects defined in (1.4) and (1.5).

 $\bar{\beta}_{nm}, \tau_{nm}, \nu_{nm}$ 

ρ<sub>n</sub>

 $ψ_1$ Stokes' potential determined from system (1.7).  $\frac{ω-ω_n}{ω_n}$ Frequency correction =  $-β_{nn}/2B_0$ 

### INTRODUCTION

In /l/, the equations governing the behavior of liquids in moving tanks under conditions of weightlessness and weak gravitational fields were derived.

The objective of this document is to develop a Digital Computer Program to calculate the pertinent liquid parameters derived in / 2 / for rotationally symmetric tanks, wherein the axis of symmetry coincides with the vector of effective mass forces.

### SYNTHESIS OF FUNDAMENTAL EQUATIONS

The equations which govern the motion of liquids enclosed in moving tanks under weak gravitational fields are derived in /l/. In particular, the equations are specialized to rotationally symmetric vessels, wherein the axis of symmetry coincides with the vector of effective mass forces. The forces, moments and free boundary displacement are given in terms of non-dimensional coefficients, which are expressible by means of the geometry of the vessel, properties of the liquid, contact angle and parameters associated with the "high-g" eigenoscillation problem. In the notation of /2/, these equations are

(1.1)

 $\eta = \eta' + \zeta/B_{0} ,$   $(\delta \overline{F}_{0l})_{y} = F_{2}' + F_{y}/B_{0} ,$   $(\delta \overline{F}_{0l})_{z} = F_{3}' + F_{z}/B_{0} ,$   $(\delta \overline{N}_{0l})_{x} = T_{1}' + T_{x}/B_{0} ,$   $q_{n} = \xi_{n} + \lambda_{n}/B_{0} ;$ 

$$\eta' = \sin\theta \sum_{n=1}^{\infty} \Phi_n(r,L)\xi_n(t) ,$$

$$\begin{split} F_{2}^{'} &= -M\alpha_{2} + ML_{1}(-\ddot{D}) - M \sum_{n=1}^{\infty} \gamma_{n}c_{n}^{*} , \\ F_{3}^{'} &= -M\alpha_{3} , \end{split} \tag{1.2} \\ T_{1}^{'} &= ML_{1}\alpha_{2} - I_{11}^{'}(-\ddot{D}) - M \sum_{n=1}^{\infty} \gamma_{n}[\alpha_{3}c_{n}^{*}\xi_{n} + a_{n}^{*}\ddot{\xi}_{n}] , \\ \ddot{\xi}_{n} + \frac{\alpha_{3}}{L} \kappa_{n}\xi_{n} &= -\kappa_{n}[a_{n}^{*}(-\ddot{D}) + c_{n}^{*}\alpha_{3}] ; \\ \xi &= \sin\theta \sum_{n=1}^{\infty} [\Phi_{n}(\mathbf{r}, L)\lambda_{n}(t) + \sum_{\substack{m=1 \\ n \neq m}}^{\infty} B_{nm}^{*}\phi_{m}(\mathbf{r}, L)\xi_{n}(t)] , \\ F_{y} &= -M \sum_{n=1}^{\infty} \gamma_{n}c_{n}^{*}\ddot{\lambda}_{n} - M \sum_{n=1}^{\infty} \gamma_{n}[e_{n}^{*}\ddot{\xi}_{n} + \alpha_{3}f_{n}\xi_{n}] , \\ F_{z} &= 0 , \end{split} \tag{1.3} \\ T_{x} &= -B(-\ddot{D}) - M \sum_{\substack{n=1 \\ n=1}}^{\infty} \gamma_{n}[\alpha_{3}c_{n}^{*}\lambda_{n} + a_{n}^{*}\ddot{\lambda}_{n}] \\ - M \sum_{\substack{n=1 \\ n=1}}^{\infty} \gamma_{n}[(b_{n}^{*} + g_{n}^{*})\ddot{\xi}_{n} + \alpha_{3}(e_{n}^{*} + h_{n}^{*} - (L + L_{1})f_{n}^{*})\xi_{n}] , \\ \ddot{\lambda}_{n}^{+} \frac{\alpha_{3}}{L} \kappa_{n}\lambda_{n}^{-} &= -\sum_{\substack{m=1 \\ m=1}}^{\infty} (A_{nm}^{*}\ddot{\xi}_{m} + \frac{\alpha_{3}}{L} \kappa_{n}B_{nm}^{*}\xi_{m}) - \kappa_{n}b_{n}^{*}(-\ddot{D}) ; \end{split}$$

where

$$\begin{split} \mathbf{A}_{nm}^{\star} &= \frac{\kappa_{n}}{\kappa_{n} - \kappa_{m}} \ \overline{\beta}_{nm} + \frac{\pi a^{3} \kappa_{n}}{V \gamma_{n}} \nu_{nm} \cos\gamma, \quad n \neq m \\ &= \frac{\pi a L^{2}}{V \gamma_{n} \kappa_{n}} \ (2\tau_{nn} - \nu_{nn}) \cos\gamma + \frac{\kappa_{n}^{a}}{L} \left( \frac{\pi a^{2} L}{V \gamma_{n}} \nu_{nn} - 2 \right) \cos\gamma, \quad n = m \end{split}$$

$$\begin{split} B_{nm}^{*} &= \frac{\kappa_{n}}{\kappa_{n} - \kappa_{m}} \beta_{nm} + \frac{\pi a^{2} L}{V \gamma_{n}} \tau_{nm} , \quad n \neq m , \\ &= \frac{\pi a^{2} L}{V \gamma_{n}} \tau_{nn} , \quad n = m \\ a_{n}^{*} &= L(b_{n} - h_{n}) - L_{1} b_{n} , \\ b_{n}^{*} &= \frac{\pi a L^{3}}{V \gamma_{n} \kappa_{n}} \left( \phi_{n}(a, L) \Psi_{1}(a, L) - 2\rho_{n} \right) \cos \gamma + \\ &= \frac{\pi a^{4}}{V \gamma_{n}} \left( \phi_{n}(a, L) - \frac{2V \gamma_{n}}{\pi a^{3}} b_{n} \right) \cos \gamma , \\ c_{n}^{*} &= b_{n} , \\ e_{n}^{*} &= -\sum_{\substack{m=1 \ n \neq m}}^{\infty} B_{nm}^{*} c_{m}^{*} , \\ f_{n}^{*} &= \frac{\pi a^{2}}{V \gamma_{n}} \phi_{n}(a, L) \cos \gamma , \\ g_{n}^{*} &= -\sum_{\substack{m=1 \ n \neq m}}^{\infty} B_{nm}^{*} a_{m}^{*} , \\ h_{n}^{*} &= \frac{\pi a^{3}}{V \gamma_{n}} \phi_{n}(a, L) \cos \gamma , \\ s_{n}^{*} &= \frac{\pi a L^{4}}{V \gamma_{n}} \left( \phi_{n}(a, L) \Psi_{1}(a, L) - 2\rho_{n} \right) \left( b_{n} + \frac{1}{2} h_{n} \right) \cos \gamma , \\ B &= M \left[ \frac{\pi a^{5}}{2V} \cos \gamma + 2 \sum_{n=1}^{\infty} \gamma_{n} s_{n}^{*} \right], \end{split}$$

with

(1.4)

į





$$\begin{split} \beta_{nm} &= -\frac{\pi a^2 L}{\nabla \gamma_n} \tau_{nm} - \frac{\kappa_m a}{K} \left[ 2 \sqrt{\frac{\gamma_m}{\gamma_n}} \delta_{nm} - \frac{2\eta L^3}{\nabla \gamma_n \kappa_n \kappa_m} \tau_{nm} + \frac{\pi L^3}{\sqrt{\gamma_n}} \left( \frac{1}{\kappa_n \kappa_m} - \frac{a^2}{L^2} \right) v_{nm} \right] \cos \gamma , \\ \overline{\beta}_{nm} &= \beta_{nm} \text{ with } \kappa_n \frac{\text{replaced}}{\delta r} \text{ by } \kappa_m , \\ \tau_{nm} &= \int_C^B \left[ \frac{\partial \phi_n(r,L)}{\partial r} \frac{\partial \phi_m(r,L)}{\partial r} + \frac{\phi_n(r,L)\phi_m(r,L)}{r^2} \right] r \, dr , \end{split}$$
(1.5)  
$$v_{nm} &= \phi_n(a,L)\phi_m(a,L) , \\ \rho_n &= \int_C^B \left[ \frac{\partial \phi_n(r,L)}{\partial r} \frac{\partial \Psi_1(r,L)}{\partial r} + \frac{\phi_n(r,L)\Psi_1(r,L)}{r^2} \right] r \, dr . \end{split}$$
The eigenfrequencies  $\kappa_n$  and functions  $\phi_n$  satisfy the boundary

value problem (see Fig. 1)

$$\frac{\partial^2 \Phi_n}{\partial r^2} + \frac{1}{r} \frac{\partial \Phi_n}{\partial r} - \frac{1}{r^2} \Phi_n + \frac{\partial^2 \Phi_n}{\partial z^2} = 0, \text{ (interior to ABCOA),}$$

$$\frac{\partial \Phi_n}{\partial z} = \frac{\kappa_n}{L} \Phi_n$$
, (along BC),

(1.6)

$$\sin\beta \frac{\partial \Phi}{\partial r} - \cos\beta \frac{\partial \Phi}{\partial z} = 0$$
, (along AB),

while the Stokes potential is determined from

$$\frac{\partial^2 \Psi_1}{\partial r^2} + \frac{1}{r} \frac{\partial \Psi_1}{\partial r} - \frac{1}{r^2} \Psi_1 + \frac{\partial^2 \Psi_1}{\partial z^2} = 0, \text{ (interior to ABCOA),}$$
(1.7)

$$\sin\beta \frac{\partial \Psi_{1}}{\partial r} - \cos\beta \frac{\partial \Psi_{1}}{\partial z} = \frac{2z}{L^{2}} \sin\beta$$
, (on ABC).

Finally, the coefficients

$$b_{n} = \frac{\pi}{\nabla \gamma_{n}} \int_{C}^{B} r^{2} \phi_{n}(r,L) dr,$$

$$h_{n} = \frac{2\pi}{\nabla \gamma_{n} \kappa_{n}} \int_{A}^{B} zr \phi_{n}(r,z) dz,$$

$$\gamma_{n} = \frac{\pi L}{\nabla} \int_{C}^{B} r[\phi_{n}(r,L)]^{2} dr,$$

$$I_{11}' = \rho \int_{UV} (r^{2} \sin^{2} \theta + z^{2}) dV - 4\rho \int_{UV} z^{2} dV$$

$$+ 2\rho L^{2} \pi \int_{A}^{B} zr \Psi_{1}(r,z) dz + M L_{1}^{2}$$

are parameters associated with the equations of motion in the absence of surface tension, and therefore can be found once  $\Phi_n$ ,  $\kappa_n$  and  $\Psi_1$  are known.

(1.8)

In the absence of surface tension  $(B_0=\infty)$ , the motion of the liquid in the moving tank is completely determined by equations (1.2) whose coefficients are expressible by means of the solutions of (1.6) and (1.7) and parameters (1.8). The NASA-MSFC Digital Computer Program /2/ is available for solving (1.6) and (1.7) and calculating (1.8) for rotationally symmetric vessels. The program and computational procedure are well documented in /2/, and not repeated here.

To find the corrections due to surface tension and contact angle effects, we must compute the additional matrices and vectors in (1.3) which are expressible by means of (1.4) and (1.5). However, an examination of (1.3-5) and the Digital Computer Program /2 / shows that the required quantities can be formed readily if the additional integrations  $\tau_{nn}$  and  $\rho_n$  are known. Therefore, we shall extend the Digital Computer Program to calculate these parameters and the resulting matrices and vectors called for in (1.3). In addition, we shall compute the frequency correction

 $\epsilon^2 \mu_n = - \beta_{nn} / 2B_0.$ 

(1.9)

# PROGRAM DESCRIPTION

The existing program (Tank Sloshing Version 1, 3712) was modified to accept the equations described in Section 1. To make the necessary changes, five routines were added and the matrix and main routines were modified.

Gauss's Quadrature Method was used as the integration scheme and was written as a new routine, INTG3. The integrands of  $\tau$  and  $\rho$  were placed in the four remaining routines.

The program was written and checked out on the IBM 7094, Mod II, Version 13.

# UTILIZATION OF THE COMPUTER PROGRAM

3.1 DESCRIPTION OF INPUT. There are three sets of required input data, as described in Sections 3.1.1, 3.1.2 and 3.1.4. An optional fourth set is described in Section 3.1.3. Input is subject to the restrictions outlined in Section 3.1.5.

Data is entered in allocated spaces on a coding form. Each digit of a number, a decimal point, or a minus sign occupies l space. Unless otherwise specified in the following sections, a number must be entered with a decimal point. A number that must not contain a decimal point must be right-adjusted. That is, all digits must occupy the last of those spaces allocated for the number.

All coordinates required as input must be in inch units, from a system in which the r-coordinate of the tank centerline is zero and the z-coordinate increases upward. The origin may be anywhere on the centerline.



3.1.1 Problem Input. The first three lines of the coding form contain general information about the problem. On the first line:

r

#### Spaces

 $\mathbf{Z}$ 

#### Data

1 through 72

Enter any desired characters to be used as an identification title.

On the second line:

Spaces

### Data

1 through 10 Contact Angle (Radians)

- 11 through 20 Bond Number
- On the third line:

Spaces

#### Data

- 1 through 10 Enter the number of segments of the curve. The number must be right-adjusted, without a decimal point.
- 11 through 20 Enter the number of modes of oscillation desired. The number must be right-adjusted, without a decimal point.
- 21 through 30 Enter the liquid density (in kilograms per cubic meter).
- 31 through 40 Enter the r-coordinate (in inches) of the beginning of the segments of the curve.
- 41 through 50 Enter the z-coordinate (in inches) of the beginning of the segments of the curve.
- 51 through 60 Enter the number of baffles. The number must be right-adjusted, without a decimal point.

3.1.2 Tank Geometry Input. Beginning with the fourth line of the coding form, a line of the data below is required for each segment of the curve. Segments must be ordered in a continuous, counterclockwise path around the curve. The number of these lines of input must equal the number entered in spaces 1 through 10 of the third line of Problem Input (Section 3.1.1).

# Spaces

#### Data

- 1 through 10 Enter the r-coordinate (in inches) of the end of the particular segment, having proceeded along the segment in a counterclockwise direction around the curve.
- 11 through 20 Enter the z-coordinate (in inches) of the end of the particular segment, having proceeded along the segment in a counterclockwise direction around the curve.

#### Spaces

### Data

21 through 30

Leave blank for a straight line segment; otherwise, enter as follows, depending on the type of segment:

Elliptical. Enter the r-coordinate (in inches) of the center of the ellipse.

Circular. Enter the r-coordinate (in inches) of the center of the circle.

Parabolic. Enter the r-coordinate (in inches) of the vertex of the parabola.

31 through 40

Leave blank for a straight line segment; otherwise, enter as follows, depending on the type of segment:

Elliptical. Enter the z-coordinate (in inches) of the center of the ellipse.

Circular. Enter the z-coordinate (in inches) of the center of the circle.

Parabolic. Enter the z-coordinate (in inches) of the vertex of the parabola.

41 through 50

Leave blank for a straight line segment; otherwise enter, depending on the type of the segment, as follows:

Elliptical. Enter the semimajor axis (in inches) of the ellipse.

Circular. Enter the radius (in inches) of the circle.

Parabolic. Enter the directrix (in inches) of the parabola.

51 through 60

Leave blank for a straight line or parabolic segment; otherwise enter, depending on the type of the segment, as follows:

Elliptical. Enter the semiminor axis (in inches) of the ellipse.

Circular. Enter the radius (in inches) of the circle.

#### Spaces

### Data

61 through 70 Leave blank for a straight line or circular segment; enter the amount of counterclockwise rotation (in degrees) from the norm (as shown in Figure 3) of the ellipse if the segment is elliptical, or of the parabola if the segment is parabolic. It may be left blank for an angle of zero degrees.

3.1.3 <u>Baffle Input</u>. This data is entered only if a number is entered in spaces 51 through 60 of the third line of Problem Input (Section 3.1.1). Beginning with the next line of the coding form, a line of the data below is required for each baffle. The number of these lines must equal the number entered in spaces 51 through 60 of the third line of Problem Input (Section 3.1.1).

### Spaces

 $\mathbf{Z}$ 

Data

l	through	10	Enter baffle	the e.	z-coordinate	(in	inches)	of	the
11	through	20	Enter inner	the end	r-coordinate of the baffle	(in e.	inches)	of	the
21	through	30	Enter outer	the <sub>.</sub> end	r-coordinate of the baffle	(in	inches)	of	the

#### Normal Orientation of an Ellipse



Figure 3. Normal Orientations for Tank Geometries

#### Normal Orientation of a Parabola



3.1.4 <u>Case Input</u>. Each case to be run requires a line of input as listed below. Any number of cases may be specified.

Space(s)

Data

- 1 through 10 Enter the z-coordinate (in inches) of the undisturbed free surface.
  - 20

Leave blank to indicate three degrees of freedom; otherwise, enter the digit 6 to indicate six degrees of freedom.

21 through 30 Leave blank to indicate no force distribution coefficients; otherwise, enter the z-coordinate (in inches) of the point dividing the liquid into an UPPER and a LOWER region of partitions.

31 through 40 Leave blank to indicate no force distribution coefficients; otherwise, enter the increment (in inches) along the z-axis between force distribution partitions in the UPPER region of liquid.

41 through 50 Leave blank to indicate no force distribution coefficients; otherwise, enter the increment (in inches) along the z-axis between force distribution partitions in the LOWER region of liquid.

#### 3.1.5 Restrictions on Input.

1. There can be no more than 50 segments.

2. There can be no more than 30 baffles.

- 3. There can be no more than 5 modes of oscillation.
- 4. Do not enter the tank centerline as a segment unless it is a segment of the curve.
- 5. The tank must not be completely full.
- Each segment must be defined such that for a given r-coordinate, there is only a single value of the z-coordinate.

i.e. A toroid must be described by 4 segments of the same circle:



3.2 DESCRIPTION OF OUTPUT. Program output consists of the following printed information:

- A. Title Page
  - 1. Name of the computer program
  - 2. Identification title
  - 3. Liquid density (in kilograms per cubic meter)
  - 4. Contact Angle (radians)
  - 5. Bond Number
  - Tank geometry a description of all segments (in inches and degrees)
  - 7. Lowest point in the tank (in inches)

- Β. Case Information (each case begins on a new page)
  - Identification title 1.
  - 2. Undisturbed free surface (in inches)
  - 3. Mass of the liquid (in kg)
  - 4. Undisturbed center of gravity (in inches)
  - 5. Number of degrees of freedom
  - Eigenvalue statistics for each mode used eigenvalue, 6. and eigenvector and its normalizing factor
  - Force and moment equation nondimensional coefficients 7. for each mode used:

K <sub>n</sub>	Υn	<sup>b</sup> n	hn
a <sup>*</sup> <sup>+L</sup> l <sup>b</sup> n	b <sup>*</sup> n	en*	f <sup>*</sup> n
<sup>g</sup> n <sup>+L</sup> 1 <sup>e</sup> n	h <sub>n</sub> *	ln k	

a<sub>n</sub> (=b<sub>n</sub>) for 6 degrees of freedom only d<sub>n</sub>

- 8. Maximum wave height at the outer radius of the undisturbed free surface/x1
- Kinetic energy/ $\dot{x}_1^2$  (in kg) 9.

12.

 $I_{11}$  and its 4 terms (in kg-m<sup>2</sup>) 10.

 $I_{22}$  and its 4 terms (in kg-m<sup>2</sup>) 11.  $I_{33}$  (in kg-m<sup>2</sup>)

- for 6 degrees of freedom only
- Force distribution coefficients for each partition 13. used:

z-coordinates of partition (in inches)

 $\alpha_2$  coefficient (in kg), [A of (5.17)]

"v coefficient (in kg-m),  $[_{n}B_{v}$  of (5.17)]  $\alpha_{3\xi_{1}}$  coefficient (in kg/m),  $[n_{n}^{c}\xi$  of (5.17)]  $\alpha_{3}x_{1}$  coefficient (in kg/m),  $[n^{C}\xi^{K}_{1}b_{1}$  of (5.22)]  $\xi_1$  coefficient (in kg), [Q<sub>n</sub> of (5.24)]\* Undisturbed center of pressure (in inches) only if 14. force distribution coefficients have been calculated in the LOWER region of the liquid Spring-mass analogy parameters for each mode used: 15. m<sub>n</sub> (in kg) l<sub>n</sub> (in inches)

 $K_n^*/\alpha_3$  (in kg/m)

16.

Spring-mass analogy parameters for ALL modes used:

m<sub>o</sub> (in kg) lo (in inches) I (in kg- $m^2$ )

17.

β ß \* Α в**\*** 

τ

Baffle effect on energy for each baffle used: 18. Baffle z-coordinate (in inches) Baffle r-coordinates (in inches) Instantaneous dE/dt factor (in  $kg/m^{3/4}$ ) (see (4.23) of Reference 2)

 $\dot{\mathbf{x}}$ See Reference 2 Average dE/dt factor (in  $kg/m^{3/4}$ ) (see (4.27) of Reference 2)

# C. Diagnostics

in the second

If normal program calculations cannot be continued, an appropriate diagnostic comment is printed out and either execution is terminated or continued with assumptions, or a new case is begun.

### REFERENCES

- On the Motion of Liquids Enclosed in Aerospace Vehicle Tanks Under Weak Gravitational Fields, Vol. I, Theory, UNIDEV Report UR-00010, March 4, 1970.
- 2. D. O. Lomen, Analysis of Fluid Sloshing, General Dynamics Report GDC-DDE66-018, June 20, 1966.

SAMPLE INPUT

0.785	64 10.	D	6 CAFTLE	ALJN A	DAFFLE IX	, SHOW BAFFLE	ØUTPUI
an fa she fan fan fan fan se	<u> </u>	3 114	4.3363	0.0	43.5	1	and a second
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	56.0	47.0				l -	
	60.0	47.0		· · · · · · · · · · · · · · · · · · ·			- Tarthalanan ana attaini la ci-la an an anagang
	60.0	75.0	ана. 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 —				
an englist the later of a set of a set of a	0.0	75.0	an a	anna an far fan an a	an an Annaich	alerty and a failed "A second" is approximately approximately and Michield Scientific Association (Science Provider)	
	50.0	50.0	60.0				
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2 SIRAIGHT LINE 7 = 0.0000	Z = 46.0000		
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## SECTION 7

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## PROGRAM LISTING

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SOURCE STATEMENT -IFN(S) - EFN **6**08 12/18

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	COMMON /BAF/NBAF & ZBAF & SU/ (KBAF & SU/ (KBAF & SU/ )
	COMMON /ELEM/MORDER, MPOLT, JN(5), NORDER, NPOLT, ACUEF(IU, 10)
	COMMON /PARAM/HONSJNHSJNNSKNSZZEFUNLOANS
	COMMON /SEG/TYPE(50), BEGRPT, RPOINT(50), BEGZPT, ZPOINT(50), RC(50),
	2ZC(50),A(50),B(50),GAMMA(50),GAM(50)
	INTEGER TYPE
	REAL LEVEL & L & JN
	EXTERNAL FloF2
	P1=3·14159265
	DO I I=I,NORD
	XG(1) = 0 + 5 + X(1)
	WG(1)=0.5*W(1)
	I CONTINUE
Ç	
Ç	
Ç	PROBLEM DESCRIPTION .
Ο.	
	-READ (5,2) TITLE
	2 FORMAT (12A6)
	WRITE (6,3) TITLE
	3 FORMAT(1H1,24X,12A0)
	READ(5,10) GAMMAA,BO
	REAU (5,5) NSEG, MODES, RHO, BEGRPT, BEGZPT, NBAF
	5 FORMAT (2110,3F10.0,110)
	IF (NSEG.GE.2.AND.NSEG.LE.50) GO TO 1005
	WRITE (6.8) NSEG
	8 FORMAT (1H0,110,22H SEGMENT(5) IS INVALID)
	CALL EXIT
100	5 WRITE (6.1010) RHO
101	T FORMAT (IND. 17HLIQUID DENSITY = .E12.5.8H KG/M**3)
* ~ *	WRITE(6.4) GAMMAA.BO
	= FDRMAT(717H CONTACT ANGLE = +F17+5+8H RADIANS/7
•	$\sim$ 15H BOND NUMBER = $+12.5$
- r	
<u> </u>	
<b>N</b> a 	7B01=4F07P1
	WRITE (& 1015)
101	полод торголог с FDRMAT (180,528,1381341К СЕОЛЕТРУ/
101	STOREL LINES SALES INTERED STOLETER
	- & 17A # & INCLEMMENT UNTE TO INCOLO// TSTV TADIE 2 AFAITT/V AUTVOETTSV TADEO AA TTOVTADAA STATEOTATTEOTATTEOTATTEOTATTEOTATTEOTATTEOTAT
~	JIX\$/HJCGHCK+\$6X\$THIIIC\$IJX\$THERUN\$16X\$CHIU\$26X\$15HCHARACICK1511C57
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SLOSH 12/18
MAIN - EFN SOURCE STATEMENT - IFN(5) -
C TANK GEOMETRY DESCRIPTION
C DO ED LEL NEEC
$\frac{1}{READ} = 1, READ = 1$
10 FORMAT (7F10.0)
IF (RPOINT(1=1) «LT«U«D«OR«RPOINT(1)»LT«D«O«OR«RC(1)»LT«D«O«OR»
2A(1) oLT 00000R oB(1) oLT 00000R oGAMMA(1) oLT 000000R oGAMMA(1) oGT 036000
JE (ZPOINT(I) LT.ZBUT) ZBUT=ZPOINT(I)
$IF (B(I) \circ EQ \circ O \circ O) GO TO 3O$
TYPE(1)=1
IF $(A(I) \circ NE \circ B(I))$ GU TO 20 WRITE $(A(I) \circ NE \circ B(I))$ GU TO 20
$\frac{1}{2(1)} \times \frac{1}{2(1)}$
15 FORMAT (1HO, 2X, 12, 7X, BHCIRCULAR, 6X, 4HR = $FIO_{4}4$ , 7X,
24HR = +F10+4+5X+ 9HRADIUS = +F10+4 · /26X+4HZ = +
$\frac{3F10.4}{7X} + \frac{4HZ}{5} = \frac{10.4}{5X} + \frac{14HCENTERATR}{7} = \frac{1}{7}$
$4r_1U_04_1YH AND Z = 1r_1U_041$ $60 \ 10 \ 50$
20 WRITE (6,25) I, RPOINT(I-1), RPOINT(I), A(L), ZPOINT(I-1), ZPOINT(I),
2B(1), GAMMA(1), RC(1), ZC(1)
25 FORMAT $(1HO_2 2X_p I 2_s 6\lambda_s 10HELLIPTICAL_s 5\lambda_s 4HR = sF10_s 4_s 7X_p$
$\frac{2348 \approx 1004357}{310480747ED BY/26X.48Z} \approx 1005E41 \approx 1005K = 10073773$
45X, $1BHSEMI = MINOR AXIS = FID.4,7X$ , $F6.1,BH DEGREES/66X$ ,
514HCENTER AT $R = FIO.4.9H$ AND $Z = FIO.4$
$\frac{60 \ 10 \ 50}{30 \ 1F \ (A(1) \circ NF \circ D \circ D) \ 60 \ 10 \ 40}$
TYPE(1)=2
WRITE (6,35) 1, RPOINT(I-I); RPUINT(I), ZPUINT(I-1), ZPOINT(I)
35 FORMAT (1HO, 2X, 12, $4X$ , 13HSTRAIGHT LINE, $4X$ , $4HR = FID_{6}4$ , $7X_{6}$
$24HK = {}FIU_04 \qquad 726X_94HZ = {}FIU_04_97X_94HZ = {}FIU_047$ $60 10 50$
40 TYPE(1)=3
WRITE (6,45) 1, RPOINT(I=1), KPUINT(I), A(I), ZPOINT(I=1), ZPOINT(1), GA
$2MMA(1)_{*}RC(1)_{*}ZC(1)$
$\frac{45 \text{ FORMAT (IND) 2X_1 I 2, 5X_1 7 M \text{ A A D ULIC, 5X_1 4 M \text{ A S F I 0 4 3 7 A 3 }}{24 \text{ HR} \approx \text{sF I 0 4 4 5 X 4 }}$
310HKOTATED BY/26X, 4HZ = F10.4,7X, 4HZ = F10.4,
$436X_{9}F6.1_{8}BH$ DEGREE5/66X $_{9}14HVEKTEX$ AT R = $_{9}F10.4_{8}9H$ AND Z = $_{9}F10.4$ )
50 CONTINUE
WRITE (6,557 2001 55. FORMAT (1HD+31HLOWEST POINT IN THE TANK IS AT +F1D+4+7H INCHES)
IF (BEGZPT · EQ · ZPOINT (NSEG) · AND · DEGRPT · EQ · RPOINT (NSEG) · OR ·
2BEGZPT.NE.ZPOINT(NSLG).AND.BEGRPT.EW.O.O.AND.RPOINT(NSEG).EW.O.O)
360 TO 75
60 FORMAT (1H0; 18HTANK IS NOT CLOSED)
CALL EXIT
65 WRITE (6,70) I
/U FURMAL (INU, 15HSEGNENI NUMBER ,12,11H IS INVALID)
75 ZBOT=2BOT=0.0254
BEGRP1=BEGRP1*0.0254
BEGZPT=BEGZPT«0.0254
00 00 I=1,N>E6
28

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1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19

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- Martin and an and second		SLUSH 12/18
a same tar a ta administra		MAIN - EFN SOURCE STATEMENT - IFN(S) -
		RPOINT(1)=RPOINT(1)*0.0254
		ZPOIN1(I) = ZPOIN1(I) * 0.0254
		RC(1) = RC(1) * 0.0254
		ZC(1) = ZC(1) + 0.0254
		A(1) = A(1) = 0.0254
		B(1) = B(1) + 0 = 0.254
and the second		$GAM(1) = GAMMA(1) * P1/18U \cdot U$
r	80	CONTINUE
· · · · · · · · · · · · · · · · · · ·		
c		READ BAFFLE INPUT CARD(S)
Č		
**		IF (NBAF+LT+1+QR+NBAF+GT+30) GO TO 100
		DU 95 I=1,NBAF
		READ (5,90) ZBAF(1), RBAFI(1), RBAFO(1)
	90	FORMAT (3F10.0)
		ZBAF(1)=ZBAF(1)+0.0254
		RBAFI(I) = RBAFI(I) * 0 * 0254
		RBAFO(1)=RBAFO(1)*0.0254
	95	CONTINUE
<u><u> </u></u>		
		UPAN A CASE INDUT CARD AND DECTN A NEW CASE OR TERMINATE RUN
		READ A CASE INFOI CARD AND BEGIN & NEW CASE ON TENNINATE NON
	ian	READ (5.105) LEVEL (DEGR.7DIV.D7(1).D7(2)
	105	$FORMA1  (FIO_{\bullet}O_{\bullet}) = (FIO_{\bullet}O_{\bullet}O_{\bullet}) = (FIO_{\bullet}O_{\bullet}O_{\bullet}) = (FIO_{\bullet}O_{\bullet}O_{\bullet}) = (FIO_{\bullet}O_{\bullet}O_{\bullet}) = (FIO_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}) = (FIO_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}O_{\bullet}$
· ·	100	LEVEL = LEVEL * 0.0254
		ZDIV=ZDIV+0+0254
		DZ(1) = DZ(1) = 0.0254
		DZ(2)=D2(2)*0.0254
		IF ILEVELOLEOZBUTI GO TO 170
		IF (IDEGRONEOG) IDEGR=3
С		
C C		FIND THE OUTER RADIUS AND THE RATIO OF THE INNER RADIUS TO THE
Č	•	
C		OUTER RADIUS OF THE UNDISTURBED FREE SURFACE
		₩5=000 TEMP(1)=0.0
		IFLAGED
		D0 130 1=1+NSEG
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	IF (ZPOINT(1), EW, ZPUINT(1-1)) GU TO 130
		IF (IFLAGOEWOD) GO TO 115
		IFLAG=0
		GO TO 130
	115	ARGI=LEVEL=ZPOINT(I)
		ARG2=LEVEL=ZPOINT(1=1)
		IF (AKGIONEOD) GO TO 120
		RR=KPOINT(I)
		IFLAG=1
	120	IF TAKGIZABSTAKGIZER AKGZZABSTAKGZIZEGU TU ISU
	1 - F	CALL FINDR (I, LEVEL, RR)
	125	$IT = (AO \bullet L I \bullet KK) = AD = KK$
	ana interación da	IF VIENTVIJOGI EUEUZ GU IV ISD TEMPZIJERK
		τωντι τ <sub>φ</sub> μνινιν
an a		29
		~/
6 · *		

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	NAIN - EFN SOURCE STATEMENT - IFN(5) -
130	CONTINUE
an a	IF (ASeLEODO) 60 TU 170
	EPSL=0.0
1.51	GO TO 140 TE TEMPLIN ET PRI TEMPLINSKR
135	$\frac{11}{100} \frac{11001}{1001} \frac{1001}{100} \frac{10001}{1000} \frac{10000}{10000} 1000$
С	
C	
Ç	FIND THE UNDISTURBED CENTER OF GRAVITY AND THE LIQUID VOLUME
L 140	766=0.0
110	CALL INTGI (FILLEVEL, ZBUT)
	ZCG=ANS
	CALL INTGI (F2, LEVEL, 2BUT)
	ZCG=ZCG/ANS
c	VOL=ANS*F1
<u>с</u>	
	L=LEVEL-ZCG
	D=21G-2001
~	H=LEVEL=ZBOT
C C	
Č	ESTABLISH THE CENTER OF ROTATION
Ċ	
	G1=D•D
	62×0•0
c	
C C	
С	DETERMINE THE NUMBER OF EIGENFUNCTIONS TO BE USED FOR THE
Ç.	EIGENVALUE PROBLEM
L	$TEMP(1) = B8 \cdot 0296927(2 \cdot 0 * L/AS)$
1	DD 145 1=1,5
	J=6=1
- 	IF (JN(J).LT.TEMP(1)) GO TO 150
145	GO TO 170
150	MORDER=MPULY+J
С	
c	
<u> </u>	CHECK VALIDITY OF MODES
Ç	IF (MODESALTALADRAMODESAGTAJ) MODES#J
c	
С	
	TEMP(1) = LEVEL70.0254
	WRITE (6,165) TITLE, TEMP, IDEGR
165	FORMAT (1H1,23X,12467/7
	21X, 31HUNDISTURBED FREE SURFACE IS AT , F10.4;7H INCHES///
	35X; 21HMASS OF THE LIQUID = ;EI2.5; 3H KG//
	45X,36HUNDISTURBED CLIVIER OF GRAVITY IS AT \$FID,4,7H INCHES//
	SSVIIIIVIICAUECO AL LUELAAN

	1174.1.17	S LIN	SOURCE	STATEMENT	- IFN(S)	<b>a</b> a	
		6mi 1 1 1	yne wr er e balland	·····			
C					namena ana amin'ny fanisa dia mampiasa amin'ny fanisa amin'ny fanisa amin'ny fanisa amin'ny fanisa amin'ny fani		a that the state of the second
C	CONTRACTORIC	6 88 16 B 6 1					
	CONT-DIEACCERS	AMMAA /		te a sue con concernent that there are presented as a the Mysenburg concerner of the second			1
	CONT-CONT /I	* [ / VUL				1	
	(0N4=P1#1 ##37	VOL			an a		the second second second
	CON5=2.0*CON4						
	CON6=(A5/L) **	2					
	CON7=CON1+PI+	L**2/V0L					
	CON8=P1*A5**2	/VUL					
	CON9=1/2.0						
	CCONID=PI*AS/	VOL		in a star province and American and American and a star of the star because and star of the star			
	CONTIEAS*AS	and a sub-transformed and the sub-transformed and the sub-transformed and the sub-transformed and the sub-trans					
	CUN14=CUSIGAM	MAA)					
	CONIS=L##2						
	CONTORCAS			. •			
	GO TO TOO						
с	~~ (~ 144						
c							
170	TEMP(1)=LEVEL	/0.0254					
and an and the second	WRITE (6:175)	TITLE, TEM	P(1)				
175	FORMAT (1H1,2	3X.12A6///	1X.28HUND	ISTURBED P	FREE SURFAC	E AT 1F10.4	1
4	18H INCHES IS	INVALID)					
	GO TO 100						
C .							
L.							
	FNA						
	END	anna a a chuir a fhù gag a chuir an ann an thài chù da chuir ann an chuir thù thù ann an thù thù ann an thù thù		na mana ana da kana 1967 (1966 yang yang da kana da ka			
	END						
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						nantar tamba ny site dia kaominina amin' ny series
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SIBFTC MAIRI	X LIST, DECK				1	100 <sup>1911</sup> - 1 <sup>91</sup> 1 - 1 <sup>91</sup> 1 - 1 <sup>911</sup> -
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						a na an
				a na ang ang ang ang ang ang ang ang ang	ana mangangkanya di dapangka dalamang mangkangka dalamang mangkangkangkang di dapang	
				ann agus 1975 anns an sun gallan ainm an sun 1976 ainm an sun gal ainm an sun gal ann an sun gal ainm an sun g	ann an ba an stàrtaith bairt sanainn an sanainn an sin an sin anna an san i	New York and the second second second
		an fan an fan yn en yn achadad ffilyn ager an fan af Manger yn ar an ffil f	ann an ann an tar an tar a data a tar an tar ann an tar an tar ann an tar an tar an tar an tar an tar		and an and a star of the second star	
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					)	
		anna an fuir an an Sarapuna. A sa an Anna La chuineanna an taonna				
				anning an an anna an an an an an an an an an a	arre da dar 1991 "Name i satis" sadar ti satis di Seri	
			an baar oo ah an amaa ah a		and an	en an general de la sectement d
		alle algun 1979 y 1974 air ann ag 1974 a' fair a d' ann àmh 2974 a' fair air ann an 1974 air ann an 1974 air a	nen ala san menyembahan dalam telahan telahan telah sebagai keteran telah sebagai keteran menyembah sebagai ket K	ann de anticipat de la companya en la companya en en estado en la companya en la companya en la companya de la	and for a set of the second second second second second second the space of the second second second second se	
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		an na mandratana na manana marakana ang manana manana na kana at sa kana ang			•	
			•			
		daandhayyaaaan a ca oyy constanting (* a aanado bor (* og anna or *		n maar ay aa ahaa ahaa ahaa ahaa ahaa ahaa	ta nada nada na manang na ka sa na manang nagata na di a nana manang na sa na na N	
		anna 1999 y 1990 y 1	nana, a ma an			lagen anna a faoirtí an faoirtí a faoirtí an seo
		ده از این از این از این از این از این از این		adaman dalam da di tang berta da ang tang tang tang tang tang tang tang	na contra de la companya de la del companya de la d	
				nye ang kalangan ang mang pang kang kang kang kang kang kang kang k	م میں اور	
		32			-	and the second second second second second

C.C.	JNM=JN(I)	281-ARG&BID)=4.6FLOAT(M*(M-L))+BMN(M-	GO [O 50 GUNN BHN (MIN) #1.7 JUNN \$ 2 % (FLOAT (2 * MHT) \$ BTP:	BMN(1,N)=1/JNN**3*LJNN*B1P=ARG*B1+A	1F (M.GT.1) GO TO 25	CALL BESSEL TARG, BI, BID)	ARGHUNN«EPSE	AMN(M,N) == EXP(=JNN®E/ASI/JNN®ANS	CALL INTGZ (F7, LEVEL, ZEUT)	JNN=JN(1)	15 IEN-MPOLY	60 10 50 67 10 50	$AMN(M,N) = -(4 \circ FLOAT(M \circ N) - 2 \circ FLOAT(M + 1))$	CALL INIG2 (F6, LEVEL, ZBUT)	IF (N.GI.MPULY) GO TO 15	DO 60 N=M, MORDER	00 20 M=1, MORDER	C EIGENVALUE FRODELE	C 0ATA JJN/0+581865221=0+3461262+0+2/3	EXTERNAL F28, F27, F30, F31	EXTERNAL F1,F2,F4,F5,F6,F7,F8,F9,F12	REAL L.LANBOA, KN, KNSTAR, LN, NN, MD, LU,	REAL UN, JNM, JNN, JLN	COMMON/BES/BLI,BIDI,BIJ,BIDJ,XII,XJI	COMMON / BARAMAN INA INA RE 77 FUNC	COMMON /ELEM/MORDER, MPOLY, JM(5), NURUH	COMMON /BAF/NBAF,2BAF(30),RBAFI(30),F		COMMON/GAMBD/GAMMAA,BD	CONMON NSEG;LEVEL;ZCG;L;D;H;AS;VUL;F7	\$8COEF(10), ECOEF(10), FCOEF(10), 6COEF(1	DIMENSION RHON(10), ASCOEF(10,10), 6SCO	DIMENSION LIMAT(10.10).KTSIDE(10).@N	DIMENSION CNK(10,10),LAMBDA(10),HNST/	DIMENSION JON(5) DIMENSION JON(5)	DIMENSION ZFORCE(3), ALPHIN(10),	- 320MB(10)	Trension VINT (10:00) VINT (10:00)	NIMENSION RETACIO, IOL RETACIO, IOL.	MATRIX - EFN SOURCE STATE	H S D 1 S
		- L - N - )	PWEPSE**(2*M=T)*(FLOAT(2*M=1)*	4 RG * * 2 * 8 1 D }									+N)+2; )*ANS						327774; "0 • 23330442;0 • 201012031		2. F14,F15,F16,F17,F18	• 1 U • L E V E E		1 ; 1 ; J ; J ] ] ] . J J	A N S	JER, NPOLY, ACUEF (10, 10)	, RBAFO(30)	CON4, CON7, CON8, CON9		(), EVSE, KHO, HODES, ZBO(,) IDEGK,	(10) HCOEF (10) , XLCOEF (10)	OEF (10,10), AACOEF (10),	A(10), TERM(4)		3,10),6(10,10)	CCALC(5), CPRINT(5)		(AU(10,10), XNU(10,10),	(10), 0R(10), 0HE6AC(10)	EMENT - IFN(S) -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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	MAIKIX - EFN SOURCE STATEMENT -	∞ [rw(ɔ) ==
	I=N=MPOLY	
	JNN=JN(1)	
	CALL INTG2 (F8, LEVEL, ZBOT)	
	SUMJ=JNM+JNN	
	$AMN(M,N) \approx EXP(-SUMJ*L/AS)/SUMJ*ANS$	l
	IF (MeEWeN) GO IO 45	
· · · · · · · · · · · · · · · · · · ·	ARGI=JNN*EPSL	
	CALL BESSEL (ARGIIDINIBIUN)	
	$\frac{AKGZ=JNM\#LFSL}{(ALL SESSEL (ARG2, RIM, RIDM)}$	
	HMNIM,N)SIARE200116010100000000000000000000000000000	2**2~*ARG1**2)*FPS1 **2
	60 10 50	
	45 CALL BESSEL (JNR B1P B1D)	
	ARG=JNN*EPSL	
	CALL BESSEL (ARG: B1: BID)	
	UMN(M,N)=((UNN**2-1+)*B1P**2-(ARG*B1D)**2-()	ARG**2-1.)*B1**2)/
	2(20*JNN**2)	
	50  AMN(N,M) = AMA(M,N)	
	BHN(N,M) = BHN(M,N)	
	A(M,N) = AMN(M,N)	
	$A(N, M) \approx AMN(N, N)$	
c	ou continue	
<u> </u>	CALL JACOBI (10.MORDER, IERR, B, A, CNK, LAMBDA,	MODES)
	IF (IERROEQO) GO TO 100	
	WRIIE (6,80)	
	80 FORMAT (1H0, 35HEIGENVALUE PROBLEM CANNOT BE	SOLVÉDI
	RETURN	
C		
C C	A DELLISTANCE COFFECTERTS	
<u>c</u>		
	100 D0 105 N=1.400ES	
	$GAMMAN(N) = 0 \circ 0$	
	$DO = 105 K \approx 1 MORDER$	•
	DO 105 J=1, MORDER	
	105 GAMMAN(N)=GAMMAN(N)+PI*L*AS**2/VOL*CNK(K:N)+	*CNK(J•N)*BMN(K•J)
	DO 110 M=1, MORDER	
	CALL INTGI (F9, LEVEL, ZBUT)	
	110 HNSTAR(H) = ANS	
	DO 115 N=1,00DES	
	$HN(N) \approx 0.0$	
	$\frac{1}{100} + \frac{1}{100} + \frac{1}$	)) * CNK (M, N) * HNSTAR (M)
	115 $BN(N) = BN(N) + PI + AS + 3/(VUL + GAMMAN(N)) + CNK(M)$	N) * BHN (1, M)
	IF (IDEGRONE.06) GO TO 295	
	WRITE (6,130)	
	130 FORMAT (1H0,4X,21HCUEFFICIENTS NODE, TOX	S2HKNS14XS6HGAMMANS12X
	27HAN = BN + 13X + 2HHN + 16X + 2HDN//)	
h a shift i fisana a	DO 140 N=1, MODES	
	$DN(N) = 2 \cdot O \cdot BN(N) - HN(N)$	
	140 WRITE ( $6$ ,145) N, KN(N), GAMMAN(N), BN(N), HN(N)	* UN (N)

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	MATRIX - EFN SOURCE STATEMENT - IFN(S) -
145	FORMAT (24X, I1, 5E18.5)
	60 10 750
295	WRITE (6,300)
300	FORMAT (1H0,4X,21HCOEFFICIENTS MODE,10X,2HKN,14X,6HGAMMAN,14X,
	22HBN, 16X, 2HHN//)
	DO 305 N=1: MODES .
305	WRITE (6,310) NOKN(N)OGAMMAN(N)OBN(N)OHN(N)
310 C	FURMAT (24X,11,4E18.5)
C C	MAXIMUM WAVE HEIGHT AT THE OUTER RADIUS OF THE UNDISTURBED
c	
750	TERM(1)=0.0
	DO 77U J=1 MORDER
	IF (JeGTENPULY) GO TO 760
	TERN(1) = TERN(1) + CNK(J, 1)
	GO TO 770
760	I=J=MPOLY
···	$I \in RM(1) = T \in RM(1) + CNK(J_{1}) * JJN(1)$
770	CUNITINUE TED FELSE TE DITECT A DECENT
2 A A A	DU 780 KEI, NURDER
78U	(EKM(2) = EKM(2) + ENK(0, 1) + ENK(K, 1) + ENK(K, 1) + ENK(0, 1)
	1ERM(2)=1ERM(2)*RHU*P1#A5*L**2*BN(1)**2/2+U
	1 EKAL=1 EKA(1) TERM2=TERM(2)
C	· · · ·
C	
C.	CALCULATE THE POLYNOMIAL CUEFFICIENTS OF THE EIGENFUNCTIONS
<u>C</u>	ASSUMED FOR THE BVP NOS . I AND 2
C .	
600	
0.05	
845	
	DO 810 K=3-N-2
<u>8</u> -1-0	$\frac{1}{4(0FF(N,K))} = \frac{1}{4(0FF(N,K))} = \frac{1}$
C	ייייש אישר לולבור ביי אישראל ביי אישראל ביי אישראין אישראין אישראין ביאשאישי איז אישראי אישראי אישראי יישראי אישר לולבור ביי אישראל ביי אישראין אישראי
- Č	
Ċ	BOUNDARY VALUE PROBLEM NUR 1
¢	CALL INTG2 (F4,LEVEL,ZBUT)
ana ana amin' na taona amin' na taon	TERM(1)=-PI*RHO*ANS
C ·	
	CALL INTG2 (F5, LEVEL, 2BUT)
	TERM(2)=8./3.*PI*RHO*ANS
c	
	TERM(3)=0.0
	DO 223 M=1,NORDER
	CALL INTGI (F18, LEVEL, ZBOT)
an an an an an ann an an an an ann an an	RTSIDE(M)=2+0+A5++2/L++2+AN5
	25
* #	· · · ·

UD 222 NEW-NORDER 1 (NGTAPPLY) TO TO 222 1 (NGTAPPLY) TO TO 222 2 (GL, 1) (12, 1) (14, 1) (14, 1, 14, 1, 14, 14, 14, 14, 14, 14, 14	D0       222       umminication       EFM       Source STATEMENT = IFM(S)         D0       222       umminication       Umminication       Umminication         D1       220       Chiller       Umminication       Umminication         D2       220       Chiller       Umminication       Umminication         D3       220       Chiller       Umminication       Umminication         D4       100       220       Chiller       Umminication       Umminication         D3       220       Chiller       Umminication       Umminication       Umminication         D3       Chiller       Umminication       Umminication       Umminication       Umminication         D3       Chiller       Umminication       Umminication       Umminication       Umminication         D3       Chiller       Umminication       Umminication       Umminication       Umminication       Umminication         D3       Chiller       Chiller       Umminication       Umminicat	IF(N+G1+NPOLY) GO TU 821 CALL INTG3(F30) 36	·•	**
0 423 A A A A A A A A A A A A A A A A A A A	00       223       μ=R_HORDEK       FFW       SOURCE STATEMENT       - IFH(5)         00       223       μ=R_HORDEK       FT       FT       FT         11       166.66.000 222       μ=R_HORDEK       FT       FT       FT         11       166.67.000 223       μ=R_HORDEK       FT       FT       FT         11       166.67.000 223       μ=R_HORDEK       FT       FT       FT         220       CAL       1116.67.111.100.700       FT       FT       FT       FT       FT         220       CAL       1116.67.111.100.700       FT       FT <td< td=""><td>JNM=JN(11) RHOSUM=0 DO 825 N=1,NORDER</td><td></td><td></td></td<>	JNM=JN(11) RHOSUM=0 DO 825 N=1,NORDER		
UD 223 N=PH(U)DUE UF (1) (0 TO 222 UF (1) (0 TO 222 UF (1) (1) (0 TO 222 UF (1) (1) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (1) (2) (2) (1) (2) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	NATRIX       - 6FW       SOURCE STATEMENT       IFRUS         NO       223 NEW NORTH STATEMENT       00       222         IF       (KAGLAMPCLY) GO TO ZZZ       IFRUENCY) GO TO ZZZ         IFRUENCY       00       223         IFRUENCY       00       723         IFRUENCY       00       74         IFRUENCY       10       111 <t< td=""><td>00 827 M=1, MORDER 11=H-HPOLY</td><td></td><td></td></t<>	00 827 M=1, MORDER 11=H-HPOLY		
D 222 APRAMOLE TO 222 IF (N+GT:APPLY) 60 TO 222 CALL (N+J)=-ANS C CLL (N+J)=-CRA(1)+-CRA(-J)-FRAM(-J) C CLL (N+J)=-CRA(-J)+-CRA(-J)+-CRA(-J)NAS C CLL (N+J)=-CRA(-J)+-CRA(-J)+-CRA(-J)NAS C CLL (N+J)=-CRA(-J)+-CRA(-J)+-CRA(-J)+	BATRIX       EFM       SOURCE       STATEMENT       IFM(5)         00       223       N=MATRIX       EFM       SOURCE       STATEMENT       IFM(5)         11       N=K=TERNET       00       10       222         11       N=K=TERNET       00       223       IFMATTERNET       00       10       220         11       N=K=TERNET       00       12       220       IFMATTERNET       00       10       220         11       N=TERNET       10       10       220       IFMATTERNET       10       220         11       N=TERNET       11       220       IFMATTERNET       11       220       IFMATTERNET       11       220       IFMATTERNET       11       220       IFMATTERNET       11	D0 427 1=1,MODES RHOw(1)=0.0		
IF       (H.G.T.HAPLONDERK	BATRIX       EFM       SOURCE STATEMENT       IFARIS         00       223       N=M+NORDER       IF       IFARISTER       IFARISTER         11       IFARISTER       IFARISTER       <	COMPUTE RHON	0 0	
D0 223 WEAL DOUBLER IF TH Control D223 IF TH Control D233 IF TH Control D234 IF TH Control D244 IF TH	DATESTATE       - EFN       SOURCE STATEMENT - IFN(5) -         D0       223       WATRIX       - EFN       SOURCE STATEMENT - IFN(5) -         D0       223       WATRIX       - EFN       SOURCE STATEMENT - IFN(5) -         220       CALL       INTEGRATION - KEEL, ZOOT)       -       -         221       LINATIN, NISA       -       -       -         222       CALL       INTEGRATINAL - ANS       -       -         223       LINATIN, NISA       + ISTALE (KLZOOT)       -       -         224       LINATIN, NISA       + ISTALE (KLZOOT)       -       -         225       CALL       INTEGRATISTIC       -       -         230       FIF (INTEGRATINAL - NETRICAL - INTEGRATION - NETRICAL - NETRICAL - INTEGRATION - NETRICAL - INTEGRATION - NETRICAL -	PS11=PS11+PBS+COS(ARG*(L+D))*QN(N) 819 CONTINUE		
00 223 WEAR, JORDER 1F (H+F) FIGULT 60 TO 222 1F (H+F) FIGULT 60 TO 222 220 CALL ING2 (FT) LEVEL, ZGOT) 221 CALL ING2 (FT) LEVEL, ZGOT) 222 CALL ING2 (FT) LEVEL, ZGOT) 1F (LERATION NU = NNS 230 FORMAT (H) NU = NNS 245 DO 250 FERMAT (H) NU ZHA 250 FORMAT (H) NU = NNS 250 FORMAT	MATRIX       EFW       SOURCE	ARGIZARG®AS CALL PMUDDS(ARGI,PBS,PBSP)		
D00 223 464,000 T0 222 11 (M451,PDUT) 60 T0 222 12 (M451,PDUT) 60 T0 222 14 (M451,PDUT) 60 T0 223 15 (M451, 1062 (F13, LEVEL, 250T) 16 (10 223 220 (ALL 10162 (F13, LEVEL, 250T) 221 (M4710, H) = -ANS 60 T0 223 14 (M4510, H) = (M4510, W 10 223 14 (M4510, H) = (M4510, W 10 223 14 (10, 43, 564 (M10, 1, 1, 1, 1, 1, 1, 2, 2, 3, 3, 0, 1, 1, 1, 1, 1, 1, 1, 1, 2, 3, 3, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	MATRIX       - EFW       SOURCE STATEMENT       - IFW15         00       223       u=0.000 L       10       220         11       (M+61+KPULY) GO TO Z22       11       120       11         12       LTMAIL       14       14       14       14         14       (M+61+KPULY) GO TO Z22       14       14       14       14         15       (M+61+KPULY) GO TO Z22       14       14       14       14       14         15       (M+114)       14       14       14       14       14       14         14       (M+12       (H+12)       14       14       14       14       14         15       (ALL 14162       (H+12)       15       14       14       14       14         11       (H+14)       (H+14)       14	GO TO BI9 B17 ARG=FLOAT(N=6)*P1/H		
DO 223 MENDERE IF (M.GT.MPGLY) GO TO 222 IF (M.GT.MPGLY) GO TO 222 IF (M.GT.MPGLY) GO TO 222 IF (M.GT.MPGLY) GO TO 222 IF (M.GT.MPGLY) GO TO 222 GO TO 223 CALL (M.GZ. (FT7.LEVEL, ZGOT)) 223 CALL (M.GZ. (FT7.LEVEL, ZGOT)) 223 CALL SUC: (MOREK.LTHAT.NTS.DE.L.1.LUE-8, 25.00.LERR) IF (ERR.STO) GO TO 243 CALL SUCE (MOREK.LTHAT.NTS.DE.L.1.LUE-8, 25.00.LERR) 230 FORMAT (M.H) = AKS 245 DO 250 TERM(14) TO ZERO) 250 TERM(14) = (6.230 O GO TO 243 250 TERM(14) = (6.230 C) AG TO 243 C 255 TERM(14) = (6.230 C) AG TO 243 C 255 TERM(14) = (6.230 C) AG TO 243 C 256 TERM(14) = (6.230 C) AG TO 243 TERM(14) = TERM(15) = TERM(15) = 111P CANNOT-BE CALCULATED - 11T 15 250 TERM(14) = (6.230 C) = 110 CANNOT-BE CALCULATED - 11T 15 250 TERM(14) = (6.230 C) = 1.000 C 250 TERM(14) = (6.230 C) = 1.000 C C 111P = TERM(15) = TERM(15) = 1.000 C C 00HUTE PSIL D 0 ALS V = 1.000 C D 0 ALS	MATRIX       - EFW       SOURCE STATEMENT       - IFM(S)         00       221       MENDULY       60       10       222         1F       (H+GI=HPULY)       60       10       221         1F       (H+GI=HPULY)       60       10       222         1F       (H+GI=HPULY)       60       10       221         1F       (H+GI=HPULY)       60       10       210         220       CALL       (H+GI=HPULY)       11       10         221       (H+GI=HPULY)       10       10       10       10         1F       (H+GI=HPUL)       10       10       11       10       11         223       (H+GI=HPUL)       10       24       10       24       11       11       11         230       (H+GI=HPUL)       10       10       10       11       11       11       11       11       11	PSII=PSII+QN(N)+PSUM		200-
D0 223 Hendruck Problem IF (N*GT*NPOLY) G0 TO 222 IF (N*GT*NPOLY) G0 TO 222 IF (N*GT*NPOLY) G0 TO 222 IF (N*GT*NPOLY) G0 TO 222 IF (N*GT*NPOLY) G0 TO 223 CALL INTG2 (F17,LEVEL;260T) 22 CALL INTG2 (F15,LEVEL;260T) 23 LTMAT(M*N) = ANS CALL SOLVE (NORDER;11NAT,RTSIDE;11:10E=A;25,QN;IERR) 16 (IERR*GT*O) G0 TO 245 245 D0 (0 255) 250 TERM(1)=TERM(1)+TERM(2)+TERM UF 111P CANNOT*DE CALCULATED = IT IS 250 TERM(1)=TERM(1)+TERM(2)+TERM(0) I = CALCULATED = IT IS 250 TERM(1)=TERM(1)+TERM(2)+TERM(1)+TERM(	D0       223       HARIX       - EFW       SOURCE STATEMENT       - IFW(S) -         D0       223       HARIX       - EFW       SOURCE STATEMENT       - IFW(S) -         D1       F       H+G1-MPULY) G0 T0 222       -       -       -         D1       F       H+G1-MPULY) G0 T0 222       -       -       -         D1       F       H+G1-MPULY) G0 T0 222       -       -       -         D1       F       H+G1-MPULY) G0 T0 222       -       -       -       -         D1       CALL INIG2 (FIJ-LEVEL, ZUOT)       -       -       -       -       -         D1       CALL INIG2 (FIJ-LEVEL, ZUOT)       -	PSUNIPSUM+ACOEF(N,J)*(L/AS)**(N+J)		100.000
D0 223 #PH NORDER IF (N*GT*NPULY) 60 TO 222 IF (N*GT*NPULY) 60 TO 222 IF (N*GT*NPULY) 60 TO 222 IF (N*GT*NPULY) 60 TO 222 ITMA (IN N=ANS G0 TO 223 CTMA (IN N=ANS CTMA (IN N=ANS CT (IN 162 (F7;LEVEL;ZBOT)) LTMA (IN N=ANS 222 GALL IN 162 (F7;LEVEL;ZBOT)) LTMA (IN N=ANS 223 LTMAT(N, N)=ANS 223 LTMAT(N, N)=ANS 223 LTMAT(N, N)=ANS 223 LTMAT(N, N)=ANS 223 LTMAT(N, N)=ANS 223 LTMAT(N, N)=ANS 223 LTMAT(N, N)=CFS,LEVEL;ZBOT) IF (IERN+N=(ISS-LEVEL;ZBOT)) 230 FORMAT (IH02) G0 TO 243 WRITE (6:330) IF (IERN+N=(IN 10, 4%, 65HTMIRD TERM UF 111P CANNOT BE CALCULATED = 11 IS 235 TERM(1)=CSO M=1, NORDER 245 D CALC INTEL (F18, LEVEL;Z0T) 250 TERM(1)=CSO M=1, NORDER 255 TERM(1)=TERM(1)+TERM(2)+TERM(3)+TERM(1)+ANS C 111P=ERM(1)+TERM(2)+TERM(3)+TERM(4) TERM12=TERM(1) TERM12=TERM(1) 1ERN12=TERM12) 1ERN12=TERM1	00       23       w=m_f(0RDE R         1F       (H+61+6PULY) GO TO 222         1F       (H+61+6PULY) GO TO 220         1F       (H+61+6PULY) GO TO 220         1F       (H+61+6PULY) GO TO 220         1F       (H+61+70LY) GO TO 220         1THAT(N,H)==ANS			21.1901
DO 223 444,10000 IF (M.GT.MPDLY) GO TO 220 IF (M.GT.MPLY) GO TO 220 CALL INTG2 (FIG.LEVEL,260T) LIMAT(1,N)=ANS CO TO 223 CALL INTG2 (FIG.LEVEL,260T) LIMAT(1,N)=ANS CO TO 223 CALL SOLVE (NORDER,LIMAT,RTSIDE,1.1.0E-3.25.QN,1ERR) IF (LERAGTO) GO TO 23 230 FORMAT (HO,4X.65HTHIRD TERM OF 111P CANNOT-BE CALCULATED = IT IS CALL INTG1 (FIG.EVEL) 255 TERM(4)=C250 M=1,MORDER CALL INTG2 (FIG.EVEL) 255 TERM(4)=C250 M=1,MORDER CALL INTG2 (FIG.EVEL) 110=TERM(1)+TERM(2)+TERM(3)+TERM(4) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERM(1) TERMIZ=TERMINED COMPUTE PSII	HATRIX       - EFW       SOURCE STATEMENT       - IFN(S)         D0       223       HF       (H+GT:NPULY)       G0       T0       220         IF       (H+GT:NPULY)       G0       T0       220         CALL       HK       (H=GT:NPULY)       G0       T0       220         CALL       HK       (H=GT:NPULY)       G0       T0       220         CALL       HK       (H=GX       (FIG:LEVEL;ZBOT)       LTMAT(H,N==ANS         Z23       LTMAT(H,N==ANS       CALL       INTER       CAUL       INTER	DO 819 N=1.NORDER IF (N.G.T.NPOLY) GO TO 817		an a
DD 223 WHENDRUCK IF (H.G.G.KPOLLY) GO TO 222 IF (N.G.G.KPOLLY) GO TO 222 CALL INTG2 (F16,LEVEL,ZGOT) LITMAT(H,K)=-ANS CALL INTG2 (F17,LEVEL,ZGOT) LTMAT(H,K)=-ANS CALL INTG2 (F17,LEVEL,ZGOT) LTMAT(H,K)=-ANS 223 CALL INTG2 (F15,LEVEL,ZGOT) LTMAT(H,K)=LTMAT(K,K)=-ANS CALL SOLVE (MORDER,LIMAT,KTSIDE,1,1+0E=4,25,0N,IERR) IF (1ERK:0.10 GO TO 245 WRITE (6,20) GO TO 245 CALL INTG1 (F15,LEVEL,ZGOT) 250 FERAL1 (H0,4X,65HTHIRD TERM OF 111P CANNOT-BE CALCULATED - IT IS 255 TERAL1 = TERM(1) + TERM(1) + TERM (2) + TERM (2) + TERM(2) + TERM(1) + TERM(2) + TER	MARIX       • EFN       SOURCE STATEMENT       - IFR(5)         DD       23       N#RIX       • EFN       SOURCE STATEMENT       - IFR(5)         DD       23       N#RIX       • EFN       SOURCE STATEMENT       - IFR(5)       -         DD       23       N#MIRE       60       TO       220       GALL       NGC       F       (N=GI=NPOLY)       60       TO       220         GALL       NGC       F       (N=GI=NPOLY)       60       TO       220       GALL       NGC       F <td>COMPUTE PSII</td> <td>0.0</td> <td>nakonin za antaŭ Nationale za antaŭ</td>	COMPUTE PSII	0.0	nakonin za antaŭ Nationale za antaŭ
DO 223 WERNBORDER DO 223 WERNBORDY GO TO 222 IF (N*GT*NPOLY) GO TO 222 IF (N*GT*NPOLY) GO TO 222 IF (N*GT*NPOLY) GO TO 222 IF (IFA; N)==ANS GO TO 223 CALL INTG2 (F15*LEVEL, ZBOT) LTMAT(M,N)==ANS 222 CALL INTG2 (F15*LEVEL, ZBOT) LTMAT(M,N)=LTMAT(N;N) 223 LTMAT(M,N)=LTMAT(N;N) CALL SOLVE (NORDER;LTMAT;RTSIDE,1:1:0E=8,25,QN,1ERR) IF (IERA-GT*O) GO TO 245 WRITE GALC SOLVE (NORDER;LTMAT;RTSIDE,1:1:0E=8,25,QN,1ERR) IF (IERA-GT*O) GO TO 245 WRITE (6,230) GO TO 255 STERM(1)=TEWA(1)+TERM(3)+TERM OF 111P CANNOT BE CALCULATED = 1T IS 250 TERM(1)=TERM(1)+TERM(2)+TERM(3)+TERM(4) TERM11=TEMA(1)+TERM(1)+TERM(3)+TERM(4) TERM11=TERM(1)+TERM(1)+TERM(1)+TERM(4) TERM12=TERM(2)	DO       223       NATREX       - EFW       SOURCE STATEMENT       - IFN(S) -         DO       223       N=M_MORDER       -	TERM13=TERM(3) TERM14=TERM(4)		ی زراد در ۱۹ دو دو دو در «اینیستندیکیلاگیاندیسی
DO 223 N=M,NOBDER DO 223 N=M,NOBDER IF (W.GT.NPULY) GO TO 222 IF (W.GT.NPULY) GO TO 222 IF (W.GT.NPULY) GO TO 222 CALL INTG2 (F12,LEVEL,ZBOT) LTMAT(M,N)==ANS GO TO 223 GO TO 223 CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(M,N)==ANS 223 LTMAT(M,N)==ANS CALL SOLVE (NORDER,LTMAT,RTSIDE,1,1.0E=3,25,QN,1ERR) LTMAT(M,N)=LTMAT(N,N) CALL SOLVE (NORDER,LTMAT,RTSIDE,1,1.0E=3,25,QN,1ERR) LTMAT(M,N)=LTMAT(N,N) CALL SOLVE (NORDER,LTMAT,RTSIDE,1,1.0E=3,25,QN,1ERR) LTMAT(M,N)=LTMAT(N,N) CALL SOLVE (NORDER,LTMAT,RTSIDE,1,1.0E=3,25,QN,1ERR) CALL SOLVE (NORDER,LTMAT,RTSIDE,1,1.0E=3,25,QN,1ERR) 230 FORMAT (1H0,4X,65HTMIRD TERM OF 111P CANNOT BE CALCULATED = 1T 1S 250 TERM(3)=TERM(3)=TERM(3)=TERM(3)=TERM(4)=ANS CALL INTG1 (F18),LEVEL,ZOUT) 250 TERM(1)=(G2@22+3@2)=RHO@VOL C 111P=TERM(1)=TERM(2)=TERM(3)=TERM(4)	DD       223       M=M_HORDER         DD       223       M=M_HORDER         IF       (M+GI=NPOLY) GO TO Z22         IF       (N+GI=NPOLY) GO TO Z22         GO TO Z23       [ITMATIM, N]==-NHS         GO TO Z23       [ITMATIM, N]==-ANS         GO TO Z23       [ITMATIM, N]==-ANS         Z20       [ALL INIG2 (FIS,LEVEL,ZBOT)         LTMATIM, N]==-ANS       [GO TO Z23         GO TO Z23       [ITMATIM, N]==-ANS         Z23       [ITMATIM, N]==-ANS         Z24       [ITMATIM, N]==-ANS         Z253       [ITMATIM, N]==NHS         Z23       [ITMATIM, N]==NHS         Z23       [ITMATIM, N]==ITMATIM, N]         Z31       [ITMATIM, N]==ITMATIN, NTS         Z45       [O Z26         Z45       [ITMETIM, I]=[G2**1.52*0*HINO*PI*1         Z50       [IERM(1)=IMS2**2.0*HINO*PI*1         Z51       [ITMATIM, N]=NORDER         Z45       [ITMATIM, N]	TERMIZ=TERM(Z)		
DO 223 WEM, NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 223 GO TO 223 GO TO 223 GO TO 223 GO TO 223 CALL INTG2 (F17, LEVEL, 260T) LTMAT(M,N) == ANS GO TO 223 CALL INTG2 (F15, LEVEL, 260T) LTMAT(M,N) == LTMAI(M,M) 223 LTMAT(N,N) == LTMAI(M,M) IF (LESQLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E=8, 25, QN, 1ERR) IF (LESQLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E=8, 25, QN, 1ERR) IF (LESQLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E=8, 25, QN, 1ERR) IF (LESQLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E=8, 25, QN, 1ERR) IF (LESQLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E=8, 25, QN, 1ERR) IF (LESQLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E=8, 25, QN, 1ERR) SET EQUAL TO 245 WRITE (0, 230) SET EQUAL TO 245 CALL INTG1 (F18, LEVEL, 200T) 250 TERM(1)=(220*RHORDER 255 TERM(1)=(22*02*G3**2)*RHO*VUL	DO       23       N=MATRIX       =       EFW       SOURCE       STATEMENT       IFW(S)       =         DO       23       N=M+NORDER       DO       220       IF       INGGI-NPOLY) GO TO       220         IF       INGGI-NPOLY) GO TO       220       IF       INGGI-NPOLY) GO TO       220         CALL INTG2       IF 12, LEVEL, ZBOT)       LTMAT(H, N) =-ANS       IF       IF         GO TO       223       CALL INTG2       IF 17, LEVEL, ZBOT)       IF       IF         LTMAT (H, N) =-ANS       IF       GO TO       223       IF       ING(H, N) =-ANS       IF         220       CALL INTG2       IF 17, LEVEL, ZBOT)       IF       IF       IF       IF         LTMAT (H, N) ==ANS       IF       GO TO       223       IF       INAT (N, N) =-ANS       IF       I	T11P=TERM(1)+TERM(2)+TERM(3)+TERM(4)		5 / C.
DO 223 WEM, WORDER IF (N+GT = WPULY) GO TO 222 IF (N+GT = WPULY) GO TO 222 CALL INTG Z (FI 5 + LEVEL, ZBOT) LTMAT (N+N) = -ANS GO TO 223 SO TO 223 CALL INTG Z (FI 5 + LEVEL, ZBOT) LTMAT (N+N) = -ANS 222 CALL INTG Z (FI 5 + LEVEL, ZBOT) LTMAT (N+N) = -ANS 223 LTMAT (N+N) = -ANS 224 LINTG (N+N) = -ANS 225 LTMAT (N+N) = -ANS 225 LTMAT (N+N) = -ANS 226 LTMAT (N+N) = -ANS 227 LTMAT (N+N) = -ANS 228 LTMAT (N+N) = -ANS 229 LTMAT (N+N) = -ANS 220	00       23       w=m+worber       IF (N=GI-KPOLY) GO TO ZZZ         1F (N=GI-KPOLY) GO TO ZZZ       IF (N=GI-KPOLY) GO TO ZZZ         1F (N=GI-KPOLY) GO TO ZZZ         1CTMAT(M,N)==ANS         20       CALL INIGZ (FI7,LEVEL,ZBOT)         1TMAT(M,N)==ANS         222       CALL INIGZ (FI3,LEVEL,ZBOT)         1TMAT(M,N)==ANS         23       CALL INIGZ (FI3,LEVEL,ZBOT)         1F (IERA-GI-O) GO TO Z23         1F (IERA-GI-O) GO TO Z45         WATTE (6+230)         23       CALL INO,4%,65HTHIRD TERM OF 111P CANNOT-BE CALCULATED = 1T IS         25E T EWAL TO ZEG         245       DO ZEG         250       TERM(3)=TERM(3)+Z.0*RHOP[*L*200T]         250       TERM(3)=TERM(3)+Z.0*RHOP[*L*20T]         250       TERM(3)=TERM(3)+Z.0*RHOP[*L*20T]	255 TERM(4)=(G2**2*u3**2)*RH0*V0L		
DO 223 N=M, NORDER IF (M,GT.NPOLY) GO TO 222 IF (N,GT.NPOLY) GO TO 220 LTMAT(M,N)=-ANS GO TO 223 220 CALL INTG2 (F17,LEVEL,ZBOT) LTMAT(M,N)=-ANS GO TO 223 222 CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(M,N)=ANS 223 LTMAT(M,N)=LTMAI(M,N) CALL SOLVE (NORDER,LTNAT,RTSIDE,J,J.OE-8,25,QN,JERR) IF (JERR-GI-0) GO TU 245 WRITE (6,230) SET EQUAL TU-ZERO) 230 FORMAT (1H0,4X,65HTHIRD TERM OF 111P CANNOT-BE CALCULATED = 1T IS 255 CALL TU-ZERO) 60 TO 255 245 DO 250 M=1,NORDER	MATRIX       = EFN       SOURCE STATEMENT       IFN(S)         MATRIX       = EFN       SOURCE STATEMENT       IFN(S)         D0       223       IF       (N+GT+NPULY)       GO       TO       222         IF       (N+GT+NPULY)       GO       TO       Z20       CALL       INTG2       (F 17+LEVEL, ZBOT)       INTG2       I	CALL INTG1 (F18,LEVLL,ZOOT) 250 TERM(3)=TERM(3)+2.0=RH0*P1*L*=2=AS*=3*QN(M)*ANS		
DO 223 N=M,WORDER IF (M.GT.WPULY) GO TO 222 IF (N.GT.WPULY) GO TO 220 CALL INTG2 (F16,LEVEL,ZBOT) LTMAT(M,N)=-ANS GO TO 223 CALL INTG2 (F17,LEVEL,ZBOT) LTMAT(M,N)=-ANS GO TO 223 CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(M,N)=-ANS 222 CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(M,N)=-ANS 223 LTMAT(M,N)=LTMAT(M,N) CALL SOLVE (NORDER,LTMAT,RTSIDE,1,1.0E-8,25,QN,LERR) IF (LERN.GT.O) GO TO 245 WRITE (6,230) 230 FORMAT (IHO,4X,65HTHIRD TERM OF 111P CANNOT-BE CALCULATED - IT IS 25ET EQUAL TO ZERO)	MATRIX       - EFW       SOURCE STATEMENT       - IFW(S)         D0       223       w=m+wORDER         IF       (M+G1+WPULY)       G0       TO       222         IF       (N+G1+WPULY)       G0       TO       220         CALL       INTG2       (F16+LEVEL, ZBOT)       (10       223         LTMAT(M,N)==ANS       (10       223       (F17+LEVEL, ZBOT)       (10         LTMAT(M,N)==ANS       (10       223       (F15+LEVEL, ZBOT)       (10         CALL       INIG2       (F15+LEVEL, ZBOT)       (10       (10         CALL       INIG2       (F15+LEVEL, ZBOT)       (10         LTMAT(M,N)==ANS       (10       (23       (23         CALL       SOUVE       (NORDER+LTMAT, RTSIDE, 11       (11         230       FORMAT       (10       (11       (11         230 <t< td=""><td>GO TO 255 245 DO 250 M=1,NORDER</td><td>the programme and the formula for the form of the form</td><td>•</td></t<>	GO TO 255 245 DO 250 M=1,NORDER	the programme and the formula for the form of the form	•
DO 223 w=m, NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 220 CALL INTG2 (F16.LEVEL, Z60T) LTMAT(M,N)=-ANS GO TO 223 GO TO 223 LTMAT(M,N)=-ANS GO TO 223 LTMAT(M,N)=-ANS 222 CALL INTG2 (F15.LEVEL, Z60T) LTMAT(M,N)=ANS LTMAT(M,N)=LTMAT(M,N) CALL SOLVE (NORDER, LTMAT, RTSIDE, 1, 1.0E-8, 25, QN, IERR) IF (IERR.GT.O) GO TO 245 WRITE (6.230)	MATRIX - EFN SOURCE STATEMENT - IFN(S) - DO 223 N=M,NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 LFNAT(H,N)=-ANS GO TO 223 CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(H,N)=-ANS GO TO 223 CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(M,N)=-ANS CALL INTG2 (F15,LEVEL,ZBOT) LTMAT(M,N)=-ANS LTMAT(M,N)=-ANS LTMAT(M,N)=-ANS LTMAT(M,N)=LTMAT(M,N) CALL SOLVE (NORDER,LTMAT,RTSIDE,1,10E-8,25,QN,IERR) IF (IERN.GT.O) GO TU 245 WRITE (6,230)	230 FORMAT (1H0,4X,65HTH1R0 TERM OF 111P CANNOT BE CALCULATED - IT IS 25ET EQUAL TO ZERO)		- مخلفة سلم يأشمر بال
DO 223 W=M, NORDER IF (M.GT.NPOLY) GO TO 222 IF (N.GT.NPOLY) GO TO 220 CALL INTG2 (F16.LEVEL.ZBOT) LTMAT(M.N) == ANS GO TO 223 CALL INTG2 (F17.LEVEL.ZBOT) LTMAT(M.N) == ANS 222 CALL INTG2 (F15.LEVEL.ZBOT) LTMAT(M.N) == ANS 223 LTMAT(M.N) == ANS CALL SOLVE (NORDER.LTMAT.RTSIDE.1.1.0E=3.25.0N.1ERR)	MATRIX - EFN SOURCE STATEMENT - IFN(S) - DO 223 W=M,NORDER IF (M.GI.NPULY) GO TO 222 IF (N.GI.NPULY) GO TO 222 CALL INTG2 (FI6,LEVEL,ZBOT) LTMAT(M,N)==ANS GO TO 223 SO CALL INTG2 (FI7,LEVEL,ZBOT) LTMAT(M,N)==ANS GO TO 223 LTMAT(M,N)==ANS 222 CALL INTG2 (FI5,LEVEL,ZBOT) CALL SOLVE (NORDER,LTMAT,RTSIDE,1.1.DE=3,25.QN,IERR)	IF (IERR.GT.O) GO TO 245 WRITE (6.230)		رد" باه
DO 223 N=M, WORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (FI6, LEVEL, 260T) LTMAT(M, N)=-ANS GO TO 223 GO TO 223 GO TO 223 LTMAT(M, N)=-ANS 222 CALL INTG2 (FI5, LEVEL, 260T) LTMAT(M, N)=ANS	MATRIX - EFN SOURCE STATEMENT - IFN(S) - DO 223 W=M,WORDER IF (M.GT.WPULY) GO TO 222 IF (N.GT.WPULY) GO TO 222 CALL INTG2 (FI6.LEVEL.ZBOT) LTMAT(M.N)=-ANS 220 CALL INTG2 (F17.LEVEL.ZBOT) LTMAT(M.N)=-ANS 222 CALL INTG2 (F15.LEVEL.ZBOT) LTMAT(M.N)=ANS	223 LIMAT(N,M)=LIMAT(M,N) CALL SOLVE (NORDER,LIMAT,RISIDE,1,1.0E=8,25,QN,1ERR)		· ·
DO 223 N=M,NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (FI6.LEVEL,ZBOT) LTMAT(M,N)=-ANS GO TO 223 GO TO 223	MATRIX = EFN SOURCE STATEMENT = IFN(S) = IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (FI6.LEVEL.ZBOT) LTMAT(M.N)=-ANS GO TO 223 GO TO 223 GO TO 223	222 CALL INIGZ (F15,LEVEL,ZBOT) LTMAT(M,N)=ANS		* . 1 .
DO 223 N=M, NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (FI6.LEVEL.ZEOT) LTMAT(M.N)=-ANS GO TO 223 220 CALL INTG2 (FI7.LEVEL.ZEOT)	MATRIX = EFN SOURCE STATEMENT = IFN(S) = IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (FI6.LEVEL.ZBOT) LTMAT(M.N)==ANS SOURCE STATEMENT = IFN(S) =	LIMAT(M,N)=-ANS . GO TO 223		د
DO 223 N=M,NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (FI6.LEVEL.ZBOT) LTMAT(M.N)=-ANS	MATRIX - EFN SOURCE STATEMENT - IFN(S) - IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 222 CALL INTG2 (F16.LEVEL.ZBOT) LTMAT(M.N)=-ANS	220 CALL INIGZ (F17,LEVEL,ZBOT)	A management of the second state and the second state of the secon	
DO 223 N=M;NORDER IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 220 CALL INTES (ELL LEVEL 720T)	MATRIX - EFN SOURCE STATEMENT - IFN(S) - IF (M.GT.NPULY) GO TO 222 IF (N.GT.NPULY) GO TO 220	LIMAT (M, N) == ANS	· · · · · · · · · · · · · · · · · · ·	
DO 223 N=M, WORDER IF (M.GT.NPULY) GO TO 222	MATRIX - EFN SOURCE STATEMENT - IFN(S) - DO 223 N=M,NORDER IF (M.GT.NPULY) GO TO 222	IF (N.GT.NPULY) 60 TO 220	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	•
	MATRIX - EFN SOURCE STATEMENT - IFN(S) -	DO 223 N=M, NORDER TE IM. GT. NPHLYL GO TO 222		

	MATRIX - EFN SOURCE STATEMENT - IFN(S) -
	60 ID 823
	GALL INTG3(F31)
641 673	REDSHMERHOSHMADN(N) & ANS
620	CONTINUE
462	RHON(1) = RHON(1) + CNK(M, 1) + RHOSOM
827	CONTINUE
C	
C	1F (IDEGR.NE+6) GO TO 2950
c c	BOUNDARY VALUE PROBLEM NO. 2
c c	122P IS THE SAME AS IIIP
с с с с	TERM(1) FOR THE BOUNDARY VALUE PROBLEM NO. 2 IS THE SAME AS FOR THE BOUNDARY VALUE PROBLEM NO. 1
	CALL INTG2 (F14,LEVEL;2007) TERM(2)=4.0*RHO*P1*ANS
ر ۲	TERN(4)=(G1+*2+G3+*2)*RHO*VOL
<b>`</b>	1F (IERR.GT.C) GO TO 425 WRITE (6.410)
410	FORMAT (1HD,4X,65HTHIRD TERM OF 122P CANNUT BE CALCULATED - IT IS 2SET EQUAL TO ZERO) TERM(3)=0.0
425	GO 10 435 TERM(3)≈IIIF™TERM(1)=TERM(2)=TERM(4)
435 450	WRITE (6,450) ILLP,(TERM(I),I=1,4) FORMAT (LHD,4X,7HLZZP = ,EL2,5,28H KG=M**2 WHERE THE TERMS ARE, 24EL6,5)
C	
с С	BOUNDARY VALUE PROBLEM NO. 3
C	
	133P=(G1**2*G2**2)*KH0*V0L
an a	WRITE (6,500) 133P
500	FURMAI (1H0, 4X, 7H133P = 1E12.5, 8H KG~M**2)
<u>c</u>	
~	RETURN
C	
C	
Ç	- FURCE DISTRIBUTION CUEFFICIENTS
C .	
275U	ARCHEU®U The Charlenge Obenovinge have and and the and the and
	AK(5=1).0
	00 2955 J=1.5
2955	CCALC(J)=0.0
	IF (D.2(1).NE.0.0) GU TO 2960
	1 = 2
······································	
	27

	HAINIA - LEN DUNCE DIAIEMENI - IENIDI -	
	ZFORCE(1) = ZUIV = UZ(2)	
,	ZFORCE(2) = ZBOT	
an e - a - a - a	GO TO 2965	
2960		
	ZFONCE(1) = LEVEL = DZ(1)	
2965	<u>APCRUEIJIELEVEL</u>	
2970	FORMAT (1HD.4X.31HFORCE DISTRIBUTION COFFICIENTS//	
	AX. 12H7 COORDINATE.	
<del>م</del> د	5X.14HALPHA(2) COEF.	· · • • · · · · · · · · · · · · · · · ·
4	6X. I SHTHETA. COEFe.	
5	$2X \cdot 2DHALPHA(3) * XI(1) COEF \cdot s$	
6	1X . ZOHALPHA(3) *XN(1) COEF	
7	1X:13HX1(1) CUEF./	
	BX, 9HIN INCHES,	
Ŷ	11X, SHIN KG,	
2	13X,7HIN KG=M,	
د	21X,7HIN KG/M,	
4	23X,5HIN KG//	
5	F1704)	
<u>C</u>		
3000		
	$\frac{ARG3=2FURCE(1)/0.0254}{0.00000000000000000000000000000000000$	
•	UU = UU = U = U = U = U = U = U = U = U	
	$\frac{1}{CAL} = 1 \times \frac{1}{CAL} = 1 \times \frac{1}{CAL} = 2 \times \frac{1}{CAL} = $	
	$\Delta (P_{H}) = (A, e_{F}) = (A, $	
	$\frac{\mathbf{A}_{\mathbf{L}}}{\mathbf{G}_{\mathbf{L}}} = \frac{\mathbf{G}_{\mathbf{L}}}{\mathbf{G}_{\mathbf{L}}} = \mathbf{$	
3010	J=N~MPOLY	
	JNN=JN(J)	
	CALL INTG2 (F7, LEVEL, ZFORCE(1))	
	ALPHIN(N)==LXP(=JNN*L/AS)/JNN*ANS	
3015	CONTINUE	
	ARG1=0.0	
	DO 3020 N=1; MORDER	
3020	AKGI = ARGI + PI + AS + 2 + CNK(N, 1) + ALPHIN(N)	
	CALL INIGI (F2,LEVEL,ZFORCE(1))	
	VM=F1 «ANS	
C		
	CPRINI(I)=CCALC(I)	
	$\frac{CCALC(1) = -KHU*(VM-UN(1)*L*AKGI)}{CRULUZ(1) + -CCULUZ(1) + CRULUZ(1)}$	
c	CPRINICIJ=CCALC(I)=CPRINICIJ	
L	(PPINT(2) = C(A(C(2)))	
	CCALC(3)-CHOSADC1	
	$\frac{CPRINT(3) = C(ALC(3) = CPRINT(3)}{CPRINT(3)}$	- م بدیسول رہے
c .	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
× .	CPRINT(4) = CCALC(4)	1
	CCALC(4)=CCALC(3)*KN(1)*BN(1)	
	CPRINT(4) = CCALC(4) - CPRINT(4)	
Ç.		
	CPRINT(5)=CCALC(5)	
	CCALC(5) = -L/KN(1) * CCALC(3)	
	CPRINT(5)=CCALC(5)-CPRINT(5)	
ng ng ngananan kanana (kata)		
	38	
ff .		

	5LUSH
	MATRIX - EFN SOURCE STATEMENT - IFN(S) -
	IF (D∠(2) + Eu+0+0) GU TO 3025
	CALL INIGI (F1,ZFORCE(3),ZFURCE(1))
	ZCGN=ANS
	ZCGH=ZCGM/ANS+ZCG
	ARG4=ARG4+CPRINT(5)=ZCGM
	ARG5=ARG5+CERINT(5)
	C
	WRITE (6,3030) CPRINT(1), (CPRINT(J), J=3,51, ARG3
	3030 FORMAT (17X, E19.5, 19X, 3E19.5/F17.4)
	GU 10 3995
ALCONOMING IN THE REAL	DO JOAN NEL NORDER
	IF $(N \circ GI \circ N \cap PQLY)$ GO TO 3050
	CALL INTGZ (F16,LEVEL,ZFORCE(1))
	$\frac{60103060}{10000000000000000000000000000000000$
	3050 CALE IN(G2 (F1/)EEVEL:AFORCE(1)) 3050 ARG2=&RG2=PI*(AS*E)**2*0N(N)*ANS
	CPRINT(2)=CCALC(2)
	$CALL INTGI (F1_{s}LEVEL_{s}ZFORCE(1))$ $CCA_{s}C(2) = C2_{s}(C2_{s}(C2_{s})) + C2_{s}(C2_{s}) + C2_{s}(C2_$
	CR(1) = CCA(C(2) = CR(1) + C
	C
*******	WRITE (6,3980) (CPRINT(J), J=1,5), ARG3
	3980 FURMAT (1/X:SE19.5/F1/.4)
	3995 ZFORCE(3)=ZFORCE(1)
	ZFONCE(1) = ZFORCE(1) = DZ(1)
	IF (ZFORCE(1).GE.ZFURCE(2)) GO TO 3000
	IF (ZFORCE(Z)) = ZFORCE(Z) = GO = IO = HOOO
	GO TO 3000
	4000 IF (DZ(2) + EQ+0+0) GO TO 200
	IF (1.EQ.2) GO TO 4005
41-19-14 (p. 12-19-19-19-19-19-19-19-19-19-19-19-19-19-	$\frac{1+2}{2EOR(E(1)+2O(1)/2O(2))}$
	ZFORCE(2)=ZBOT
	GO 10 3000
	WRITE (6,4010) ZCP
	4010 FORMAT (1H0,4X,37HUNDISTURBED CENTER OF PRESSURE IS AT ,F10.4,
	27H INCHES)
	C SPRING-MASS ANALUGY PARAMETERS
	c
	200 DO 205 N=1, MODES $h(h) = h(h) =$
•	$LN(N) \approx GS = L + L + IN(N) / ON(N)$ $MN(n) \approx RHO + VOL + GAMMAN(N) + RN(n) = + Z + KN(H)$
	205  KNSTAR(N)=MN(N)*KN(N)/L
	MU=KHO+VOL
A strategy areas	DO 210 N=1,HODES
	210  MU=nO-MN(N)
	39

	LU=63*RHU*V0L/M0
<u>.</u>	DO 215 N=1, NODES $(1, 2, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3, 3,$
61	$\frac{15 \text{LU} = \text{LU} = \text{RHU} \times \text{VUL} \times (\text{GAMMANIN} \times \text{BNIN} ) \times \text{RNIN} \times (\text{G3} \times \text{BNIN} ) = \text{CMIN} = \text{CMIN} \times (\text{MIN} ) = \text{CMIN} $
	10=111P-M0*L0**2
	DU 290 N=1, MODES
29	20 10=10~MN(N)*LN(N)**2
С С	CONDUCE INTEGRAL FOR TAIL
C	
-	DU 75 1=1, MURDER
	X11=2+I=1
	DO 75 J=I, MORDER
	IF(1.6T.MPOLY) GO TO 65
	IF (J.GT.MPOLY) GO TU 70
	ANS=((X11*XJ1+10)/(X11+XJ1))
an,	$\frac{X1N1(1,J)=ANS}{CO-10-7}$
41	GU (U /S 5 II=I=APPOLY
<u> </u>	JNN=JN(11)
	JJ=J=HPOLY
	(LL)NL=MNL
	CALL INTG3(F28)
	$\frac{1}{10}$
	70 JJ=J=HPOLY
	(LC)NL=NNL
and a finish "of the second of	CALL INTG3(F29)
	$X_{INI}(L_{S}J) = A_{NS}$
c . '	A CONTINUE
C	COMPUTE TAU AND XNU
C	
	DO 95 M=1, MODES
	DO 87 I=1,MORDER
	DO 87 J=1,MORDER
	IF(1.6T.J) GO TO 81
	$\frac{1}{2} \frac{1}{2} \frac{1}$
	$\frac{30 \times 10 \times 50}{81 \times 1012(1,J) \approx \times 101(J,1)}$
2	B5 $TAU(M,N) = TAU(M,N) + CNK(I,N) + CNK(J,M) + XINT2(I,J)$
(	B7 TAU(N,N)=TAU(M,N)
	SUMM(M)=0.0
	DU = YU = I = I MPOLY $SUMM(M) = SUMM(M) = CWK(I, M)$
	MI=MPULY+1
en, er er denne førgerer av handen	DO 92 I=MI, HORDER
	II=I-MPULY
	JNN=JN(11)
() <sup>2</sup> , - <sup>2</sup> - <sup>2</sup> -2 <sup>2</sup> -2 <sup>2</sup> -2 <sup>2</sup> -2 <sup>2</sup> -2 <sup>2</sup> -2 <sup>2</sup> -	SUMM(M) = SUMM(M) + CNK(1, M) $\approx$ A1
	σε σε το

	MATRIX - EFN SOURCE STATEMENT - IFN(S) -
92	CONTINUE
·	AACUEF(M) = L*(BN(M) - HN(M))
95	CONTINUE
, consider a more set of the second ball and the	DO 128 N=1, MODES
	ECOLF(N)=0.0
	GCOEF(N)=0.0
	BCCUEF=0.0
	CONTO=CCONTO/GAMMANIN)
	CON13=CUN2/GAMMAN(N)
	TLUMECNEHI. CO TO TTO
data ya kuto Matalay ya mata Matala mara kuto kuto kuto kata kuto kuto kuto kuto kata kuto kuto kuto kuto kuto	$C(1M+2) = K_{M}(N) / (K_{M}(N)) = K_{M}(M))$
	$\begin{array}{c} \text{GO}  \text{IO}  \text{IIB} \end{array}$
116	DELNM≈1.0
	$BETAR(N \cdot M) = 0 \cdot 0$
and the second	ASCUEF(N,N) = CONID + CUNIS + CONI4 + (2, 0 + TAU(N,N) - XNU(N,N))/KN(N)
:	$5 + KN(N) * CON1 * (CON13 * XNU(N, N) = 2 \cdot O) / L$
	$BSCUEF(N,M) = CON13 \bullet TAU(N,N)$
	GO TO 120
118	BETAB(N,M)=-CON2*TAU(N,M)/GAHMAN(N)-CON3*KN(M)*
:	» (→CUN5*TAU(N,H)/(KN(H)*KN(H)*GAHAAN(H)) +CON4*(1.0/(KN(H)*KN(M))
	S-CON6) * XNU(N,M)/GAMHAN(N))
120	BETA(N.M)==CON2*TAU(N.M)/GAMMAN(N)=CON3*KN(M)*(2.0*SQRT
	\$ (GAMMAN(M)/GAMMAN(N)) *DELNM~CUN5 * TAU(N,M)/(KN(N) *KN(M) *GAMMAN(N))
	▶ + CQN4 # (1 • 0/(KN(N) * KN(H)) ~ CON6) # XNU(N • M)/GAMMAN(N))
	$\frac{1}{1} F(N \in \mathbb{Q} \setminus M) = 0  124$
	ASCUEF(N,M) = CON12 + BETACHTMA + CON10 + CON11 + KN(N) + KN(N) + M) = CON14
1.54	
167	FORFINGE FORFINGERSCOFFIN, BICRANIMI &FORFINI
•	GCOFF(N) = BSCOFF(N, M) * AACOFF(N) * GCOFF(N)
126	
4 Fm 4	OMEGAC(N) = 0.5 * BETA(N.N)/BO
· · · · · · · · · · · · · · · · · · ·	TEMP=(SUMM(N)*PS11-2.0*RHON(N))*CON15*CON14/AS
	BCOEF(N)=CON13 * TEMP/KN(N)+CON10*CON11*CON1*(SUMM(N)=2.0*VOL
	\$*GAMMAN(N)*DN(N)/(P1*A5**3))
	FCOEF(N) = CON10 * CON1 * SUMM(N)
	HCOEF(N)=CONID*CONII*SUMM(N)
	XLCUEF(N)=CUN13*L*TEMP*(BN(N)+O.S*HN(N))
	BCCUEF=BCCDEF+GAMMAN(N) *XLCUEF(N)
128	CONTINUE
Management in any second state of the State of the State of State of State of State of State of State of State	BCCUEF=RHO*VOL*(PI*A5**5*CON14/(2.0*VOL)+2.0*BCCOEF)
	WRITE(6,11110)
11110	FURMATCINU, 4X, ZIHCUEFFICIENTS MUDE, 8X, 8HAN**LIDN, 1ZX, 3HDN*,
	515X,3HEN*,15X,3HEN*//)
0 <b>0 0</b>	PO = OZY = N = I + I + I + I + I + A = COFF (N) = BCOFF (N) = FCOFF (N) = FCOFF (N)
	FORMATIZEX. 11.4418.51
****	
11112	FORMATCIHD.4X.2IHCOEFFICIENTS MODE.7X.9HGN**LTEN*.IZX.3HHN*.
* \$ \$ \$ £m	s15X.3HLN#//)
	DU 631 N=1.MODES
831	WRITE(6,11113)N, GCOEF(N), HOUEF(N), XLOOEF(N)
11113	FURMA1(24X,11,3E18,5)
- ** **	
	41

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	SLUSH 12 MATRIX - EFN SOURCE STATEMENT - IFN(S) -
	WRIIF(6.785) TFRM1.TERM2
	785  FORMAT (140.42.174NAX. FTA/XN(1) = .F12.5//
	$25X_27RKINFTIC_FNFRGY/XN(1)_{aa*2} = F12a5.3H KG)$
	$\mathbb{E}_{\mathcal{A}} = \mathbb{E}_{\mathcal{A}} = $
	240 FORKAT (140.49).74111P = .F12.5.284 $\chi_{\text{GeoMeter}}$ where the treeds are.
	ZOU FURNAL (INUSIAS/HIIII = SEIZEDSZUN KOTHESZ HNEKE HLE IEKNU ANES
	$\frac{11116}{F0R66111H0.4X.7HB} = \frac{F12.51}{F12.51}$
	$\frac{1}{110} \frac{1}{1000} \frac{1}{100} 1$
	315 FORMAT (1HD.4X.31HSPRING=MASS PARAMETERS MODE.9X.2HMN.15X.
	22 H M $4X = 15$ H K N ST A $2$ / A $1$ P H A $(3)$ /
	$\frac{22}{43}$
	$\frac{\partial \partial f}{\partial t} = \frac{\partial f}{\partial t} $
	$\frac{1}{1} \frac{1}{1} \frac{1}$
	220  WRITE  (A, 325)  M MN(W)  (N(M)  KNSTAR(A)
	$\frac{320}{220} \frac{1}{100} $
	$\frac{1}{2} = \frac{1}{2} = \frac{1}$
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	WK[IC(0,1]]II/J = ((AU(1,0),0) - 1,0)UC(0),1 = 1,0)UC(0)
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	$\frac{WKIIE(6_{1}III)(BETA(I_{1}))}{BETA(I_{1})} = \frac{WOBEE}{BETA(I_{1})} = WOB$
**	$\frac{WRIIC(6_{1})}{(0L)} (0L) RO(1_{1}) (0L) RO(1_{1}) (0L) (1_{1}) (0L) (0L) (0L) (0L) (0L) (0L) (0L) (0L$
ç:	WRITE(6, IIII')((ASCUER(I), J) J=1, NOD(S), J=1, NOD(S)
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	IF (NBAFALTALADKANBAFAGIA3D) RETURN
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a se superior de la deserva de manda de deserva	MATRIX	- EFN	SOURCE	STATEMENT	- IFN(S)	<b></b>
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	AKGZ=KBAFI(1)					annan a shaki barar atani ka na dhar kan kan kata kan a sana sayan sayan sa s
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340	T=D_5+W(.()					
	$S = 0 \cdot 5 + 0 \cdot 5 + X (J)$					• • • • • • • • • • • • • • • • • • •
370	$RK = (A \times G2 - A \times G1) = 3$	STARGE				
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	KI=MPULY+1					
	DO 380 K=K1, MORI	DER		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
	KK=K-MPOLY					
	ARG=JN(KK)=RR/AS	<b>)</b>	· · · · · · · · · · · · · · · · · · ·			
	CALL BESSEL (ARG	3,81,81D	)			
380	TERH(I)=TERH(I).	PCNKIKII	J&JN(KK)*	BI * EXP ( ~ JN	(KK) * (LEVEL	-ZBAF(1))7AS)
	SUM=SUM+ABSITERI	4(↓))⇒⇒(	50/201*RR	• T * (ARG2 - A	RG1)	
390	CONTINUE					
	IERM(1)==SUM*RH(	1*18*0*1	•23*(KNS)	AK11)/MN(1	1)##(]=/4=)#	· · · · · · · · · · · · · · · · · · ·
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<pre>1 ILEV=0 IF (ZPOINT(1-1) * LE * LE, 2 * AND * ZPOINT(1) * LE * LEV2) GO TO 110 IF (ZPOINT(1-1) * GE * LEV1 * AND * ZPOINT(1) * GE * LEV1) GO TO 110 IF (ZPOINT(1-1) * LE * LEV2 * AND * ZPOINT(1) * GE * LEV2) GO TO 20 IF (ZPOINT(1-1) * LT * LEV1 * AND * ZPOINT(1) * GE * LEV1) GO TO 30 IF (ZPOINT(1-1) * LT * LEV1 * AND * ZPOINT(1) * LE * LEV2) GO TO 40 IF (ZPOINT(1-1) * LT * LEV1 * AND * ZPOINT(1) * LE * LEV2) GO TO 50 IF (ZPOINT(1) * LE * LEV2) GO TO 10 IF (ZPOINT(1) * LE * LEV2) GO TO 10 IF (ZPOINT(1) * LE * LEV2) GO TO 10 IF (RPOINT(1) * LE * LEV2) GO TO 7 CALL FINDR (1 * LEV1 * ENDR) IF (10UT1 * EQ * 0) GO TO 6 5 10UT1 * 0 BEG=0UT1 END=ENDR (1) * CONTACT *</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE; 2*AND*ZPOINT(I) * LE*LEV2) GO TO 110 IF (ZPOINT(I=1) * GE*LEV1*AND*ZPOINT(I) * GE*LEV1) GO TO 110 IF (ZPOINT(I=1) * LE*LEV2*AND*ZPOINT(I) * GE*LEV1) GO TO 20 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * GE*LEV1) GO TO 30 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV2) GO TO 40 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV1) GO TO 50 IF (ZPOINT(I) * LE*LEV2) GO TO 10 IF (ZPOINT(I) * LE*LEV2) GO TO 10 IF (ZPOINT(I) * LE*LEV2) GO TO 10 IF (RPOINT(I) * LE*LEV1*ENDR) IF (IOUT1*EQ*O) GO TO 6 5 10UT1=0 BEG=0UT1</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE, 2*AND*ZPOINT(I) * LE*LEV2) GO TO 110 IF (ZPOINT(1=1) * GE*LEV1*AND*ZPOINT(I) * GE*LEV1) GO TO 110 IF (ZPOINT(I=1) * LE*LEV2*ANO*ZPOINT(I) * GT*LEV2) GO TO 20 IF (ZPOINT(1=1) * LT*LEV1*AND*ZPOINT(I) * GE*LEV1) GO TO 30 IF (ZPOINT(1=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV2) GO TO 40 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV1) GO TO 50 IF (ZPOINT(I) * LE*LEV2) GO TO 10 IF (ZPOINT(I) * LE*LEV2) GO TO 10 IF (RPOINT(I) * LE*LEV2) GO TO 7 CALL FINDR (I*LEV1*ENDR) IF (IOUT1*EQ*0) GO TO 6 5 IOUT1=0</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE, 2*AND*ZPOINT(I)*LE*LEV2) G0 T0 110 IF (ZPOINT(I=1)*GE*LEV1*AND*ZPOINT(I)*GE*LEV1**********************************</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE, 2*AND*ZPOINT(I) * LE*LEV2) GO TO 110 IF (ZPOINT(I=1) * GE*LEV1*AND*ZPOINT(I) * GE*LEV1**********************************</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE, 2*AND*ZPOINT(I)*LE*LEV2) G0 T0 110 IF (ZPOINT(I=1)*GE*LEV1*AND*ZPOINT(I)*GE*LEV1) G0 T0 110 IF (ZPOINT(I=1)*LE*LEV2*AND*ZPOINT(I)*GT*LEV2) G0 T0 20 IF (ZPOINT(I=1)*LT*LEV1*AND*ZPOINT(I)*GE*LEV1) G0 T0 30 IF (ZPOINT(I=1)*LT*LEV1*AND*ZPOINT(I)*LE*LEV2) G0 T0 40 IF (ZPOINT(I=1)*LT*LEV1*AND*ZPOINT(I)*LE*LEV1) G0 T0 50 IF (ZPOINT(I)*LE*LEV2) G0 T0 10</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE, 2*AND*ZPOINT(I) * LE*LEV2) G0 T0 110 IF (ZPOINT(I=1) * GE*LEV1*AND*ZPOINT(I) * GE*LEV1) G0 T0 110 IF (ZPOINT(I=1) * LE*LEV2*AND*ZPOINT(I) * GT*LEV2) G0 T0 20 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * GE*LEV1) G0 T0 30 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV2) G0 T0 40 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV1) G0 T0 50</pre>
<pre>1 ILEV=0 IF (ZPOINT(I=1) * LE*LE, 2*AND*ZPOINT(I) * LE*LEV2) G0 T0 110 IF (ZPOINT(I=1) * GE*LEV1*AND*ZPOINT(I) * GE*LEV1) G0 T0 110 IF (ZPOINT(I=1) * LE*LEV2*AND*ZPOINT(I) * GT*LEV2) G0 T0 20 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * GE*LEV1* G0 T0 30 IF (ZPOINT(I=1) * LT*LEV1*AND*ZPOINT(I) * LE*LEV2* G0 T0 40</pre>
<pre>1 ILEV=0 IF (ZPOINT(1-1)*LE*LE, 2*AND*ZPOINT(1)*LE*LEV2) G0 T0 110 IF (ZPOINT(1-1)*GE*LEV1*AND*ZPOINT(1)*GE*LEV1) G0 T0 110 IF (ZPOINT(1-1)*LE*LEV2*AND*ZPOINT(1)*GT*LEV2) G0 T0 20 IE (ZPOINT(1-1)*LE*LEV2*AND*ZPOINT(1)*GT*LEV2) G0 T0 20</pre>
1 ILEV=0 IF (ZPOINT(I=1).LE.LE., 2.AND.ZPOINT(I).LE.LEV2) GO TO 110 IF (ZPOINT(I=1).GE.LEV1.AND.ZPOINT(I).GE.LEV1) GO TO 110
1 ILEV=D IF (ZPOINT(I=1).LE.LE., 2.AND.ZPOINT(I).LE.LEV2) GO TO 110
1 ILEVED
LOCATE THE PORTION OF THE SEGMENT BETWEEN THE TWO LEVELS
<u>DV 130 1=1,N5FG</u>
EN0K=0.0
BE6R=0.0
TEMP=0.0
JFLAG=O
10UTIED
$\frac{11}{2LEV2*GE*BEGZP[*AND*LEV2*GE*ZPOINT(1)]} = 18EGR=1$
$\frac{18 \text{EGR}}{16}$
SET UP LOGIC FLAGS
MCAL LLVIshtVZ
22C(50),A(50),B(50),GAMMA(50),GAM(50)
COMMON /SEG/TYPE(50), BEGRPT, RP01HT(50), BEGZPT, ZP01HT(50), RC(50),
COMMON /PARAN/H, N.JNH, JNH, RR, ZZ, FUNC, ANS
2GI : SZ : SZ : ZI : SZ : ZI : SZ : SZ : S
COMMON NSEG, LEVEL, ZCG, L, D, H, AS, VOL, PI, EPSL, RHO, MODES, ZBOT, IDEGR,
THE INTEGRAND
(LEV) AND LEV2); WHERE F IS THE SUBROUTINE CONTAINING
RUULINE EVALUATED A CLUDEU LINE INTEGRAL WITH RESPECT TO THE RECOORDINATE EOR THAT PORTION OF THE TANK RETWEEN 400 TEVELS
SUBROUTINE THYG2 (F.LEV. LEV2)
in a start
INTG2 - EFE SOURCE STATEMENT - IFN(S) -

	- 5	бсобн					0.74
		INTG2	- EFN	SOURCE STATEMEN	47 - IF	N(5) -	
	L F	(LOUTI.EQ.O)	GO TO LI	,		an i 1960 a 1974 kanalan ki mara 1974 ang 1960 kang pang pang kanala na salaha na kana kana ka	<ul> <li>Construction of a standard d<sup>math</sup> state state at the m<sub>ath</sub> or μ<sub>a</sub> = 0 − 0.</li> </ul>
0	GC	) TO 5		ан ал ан			and the first state of the stat
R	10 11	(RPUINT(I).E	SORPUINI (	1-1)) 60 10 15		l -	
	L A	LL FINUK (I.L	LVI LNOR/				
3		TI CINUD VI II TIUVIIENCEUT	AU IO D EVD.BECR.				
i		AFGREI	-1410-011	anggi kan bandhari ya panangga kanan al'an diga panankana". San bahan mananan manané amang mbang mban sa 1996 B	a na 1996 ang	e na den en la del de la acteur en en la calecter de la del de la acteur de la del control de la del en en en d Recen	
•	BE	IG=ENDR					
1 1 1	٤١	ID≈BEGR	• • • • • • • • • • • • • • • • • • •	ng mananang Mantanya ang manang mata din 1991 pang manang at Kananggapa dara ang at Pilipin pang din 1994 ting	n an	2 Martin I. and C. Martin and an apply of the analysis of a second second second second second second second se	
•	G	) TU 80		•			
	15 EN	DR=RPOINT(1)			<i>,</i> •		
t a sala and a sala and a sala and	1 P	(IOUTI.NE.U)	60 TO 5	taan amin'ilaina amin'ny fisiana mpikamany distrika distrika tamin'ny tamin'ny tamin'ny distriktiona (1990). Il	er (els els els secondos secologisticados en sue como esticida en s	nyan <b>t</b> a tanaka apa atauna kan staritti kananan kata kanana ata ata bi	
2.	BB	GR=RPOINT(I)					
5	1 E	I E G R = I					and the second
	GC	) TO 110		an the state			
•	20 11	(ZPOINT(I).L	IOLEVII G	0 10 25	ange er sen er sin er ne en en en en en en en en er	an analysis (here have been also that for an error of all the property of the second second second second second	and the second
	[ ( 7 L	)V[]=] * (BADINT(A) (*	a pROL TI	(-))) Co TO 2)			
	I[	IL ETNOR / L	$\frac{1 \cdot R - O I \cdot N + 1}{2 \cdot I \cdot I \cdot O \cdot I + 1}$		na gana katika 1979 (Tangana Kanadita Tangana Ka	and dispersion of the support and its control of mark (Radak personalisms, Friedric of Republic second ) and	and a strange of the second straining of the second
			$\nabla 2 \cdot 0 U \tau 2$	×			
	UP	$= (18EGR \cdot EQ \cdot A)$	GO TO 22	المراجعة المراجع والمراجعة المراجع الم المراجع المراجع	na an a		
(	21 11	3EGR=0					· · · ·
1	Bf	G=BEGR	a factor con constanting and a second s				
	E l	10=0UT2	and all and a second state of the second state	na an an tha an	na na antara na 17 milion na sana antara mana antara antara	an a	abelie the second as a second to be the second to be a second to be a second to be a second to be a
19	II	-EV=2					
•	G (	) TO BO				an an a share an anna a share a share ann an Anna a Anna a' an an an an anna a' an a	
	22 IF	(BEGR.EW.n.D.	) TEMPLOU	12			
• •	81	. G=0UT2		n an ♣ android all all all a state of all in the state of a state	n Nama agus ta an tao ga a sa ta dua 1974 panasan ta		
<b>\$</b>	E ľ	//≈0011		·			
• •	22 01		line and the first of the second s	алдан түскөн үндөр араас алаар алаас алар улсан жайлагаас араас түскөө калар түскөө түскөө үндөө араа түскөө ка Түс	n a a sua anti-ren danay kampan di Madelana kati		na sampara na nakaritika kanponishi kataloka sana sa sa sa s
	24 01			1			
	<u> </u>	(IBEGRONEON)	60 TU 21	, a ya mananani, a sa ayan ya saka ka sa sa sa ay ay a ana a ka sa ya ya na aka ka sa ka sa sa sa sa sa sa sa s			
	11	- (BEGROENeneD	) TEMPLOU	T2			
· · ·	. G(	) TO 110	· · · · · · · · · · · · · · · · · · ·				
the set of a set of the	25 11	F (RPQINT(1).E	Q. RPOINT(	1-11) GO TO 24		an 10 mil Na anna dean na h-MATTAN an dean dhan 2000 - San a san 60000 11	an a
	C, /	ALL FINDR (1,L	EV2,0U721				
a	I F	(IBEGR.NE.D)	GO TO 21	an a an han dan pananan kana 17 anna an 17 anna da bar 17 an han da 18 7 an han da 18 18 18 18 18 18 18 18 18 1 T		۰	ana ang kangana ang kantana ang kantang kantang kantang kantang kantang kantang kantang kantang kantang kantan
	11	F IBEGRAEQ.D.D	) TEMP=00	Τ2			
	81	$\frac{10 \times 0012}{10 \times 001}$		and the PETER International States of the State of the State State and the State States and the State States and		an aga na sa ang sang sa	
	E1	V = RPOINT(T)					
Standard Street and Standard Street	30 10	)///////	The start of the particular part of the start of the star	gana ana an' na gana amin'ny tanàna mandritra amin'	an a	2) yang an anan 15 mili na pada ang mang kana kata da kata da kana kata da kata da kata da kata da kata da kat	a a second a
	16	F (RPOINT(T)_E	Q. RPOINT(	1-1)) GO TO 35			
paper de la superior conservé de des	c/	LL FINDR (1,LE	EVI.OUTI)	, and of the count of the second s			an a
	B	EG=RPOINT(1-1)					
	Er	170004					
<b>A ( Property and a start of a start of a</b>	G (	0 T 0 8 0 T (	a na ana amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna mandritry dia	and a more and a second sec	an Stransmither State Managemeters and Stransmither An	a a ta 1969 a a ta 1 a - Sa 1961 a dan 4 Sanagement dan September yang dalam sa sebuah sebuah s	energy () - we are not a fifth happy of planet. All the second states in the second states in the
	35 01	JT1=RPOINT(I)					
Bern Saman and Bernstein States	<u> </u>	) TO 110		n an comhairte agus agus ann ann an thar Ann a mar an comhair "a cus cann an darfad Marmanna ann dd bri A Para			and a second
	4U I C	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$	a aparat	1-111 60 70 46			
<u>}                                    </u>	11	IL FISING (T LI	CUSTAFART	11)1 80 10 42			
	L/ 12 F	GERPOINT(1+L)	erciulian)				
Management and the second s	F I	D = BFGR	er en de suisse autoris als estre de la constance de servició, en de dué entre autorisme	د بر ۱۹۹۵ های می می بردی می	ر به می ایند از می این ا	ana ana amin' na amin' na amin' na mana amin' na mana ana amin' na mana amin' na mana amin' na mana da Mara Ma	Salandar manad ya yina ya kuna kuna kuna kuna kuna kuna kuna kun
	G	) TO 80					
*		n na hand til en nyg nyg na manananatatat t	e Malayan yang ana dikina ang ana mana dikinaki dika ganaga				new Management of State States and States of the States of States and States
7			1	+9			a be a
a 4	*					, and the second s	

4 4 %

and the second second

4 C	BFGP=PP∩INT/1
CF	60  TO  110
50	IF (RPDINT(I), EOORPOINT(1=1)) GO TU 110 /
×	BEG=RPOINT(1=1)
	END=RPOINT(I)
C	EVALUATE THE INTEGRAL ALONG THE SEGMENT BETNEFN THE TWO LEVEL
Ç	OR ALONG ONE OF THE TWO LEVELS
C	
80	SUM=0, 0
iya ng pantan ng sanak kanalis na ang pana na kanasis na s	0090 $JJ=192$
	$\begin{array}{c} 0 & 90 \\ 0 & 1 \\ 0 & 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$
	$\frac{60}{11001} \frac{1001}{10021} \frac{10021}{1002} 1002$
1001	T=0.5*V((1))
-	IF (END.GT.BFG) GO TO INIO
	S = 0.5 + 0.5 + X(11)
	GO TO 85
1010	$5=0_{e}5=0_{e}5=X(11)$
1000	
	$\frac{1 = 0.05 * W(0)}{1 = 0.05 \cdot 0.05 $
	S=0,5∞0,45¢X(J)
n an	GO TO 85
1020	$S = Q \circ 5 + Q \circ 5 * X (J)$
85	RR = (END - BEG) * S + BEG
	IF (ILEV.EQ.O) CALL FIND4 (I, RR, 2Z)
anter de la companya	CALL F
	SUM=SUM+FUNC +T
90	CONTINUE
• .	ANS=ANS+SUN*(END-BEG)
¢ ·	
<u> </u>	CHECK IF LUTEGRATION HAS LEFT COMPLETED ALONG THE SEGMENT
с С	CHECK IL INTEGRATION HAS DEEN CONCETED AFONG THE CEMENT
· · · · · · · · · · · · · · · · · · ·	IF (ILEV.NE.O.AND.IFLAG'EQ.O) GO TO 1
Ç	
C	
<u> </u>	CHECK IF INTEGRATION HAS BEEN PERFORMED ON THE INO LEVELS
<b>L</b>	1F (1.17.NSEG) 60 TO 130
110	IFLAGE1
	1F (IBEGR. EQ. 0) 60 TO 115
ang ng mga ng	1BEGR=0
a de la companya de l	BEGEBEGR
	END=TEMP
an alaha san mila serara pa anana dala dara a sara ay namanan dala dala	1LLV=2
116	$\frac{1}{1} F(1) UT(1) F(0) = 0$
	IOUT1=0
	BEG=OUT1
	END=ENDR

	-05H INTG2	- EFN	SOURCE	STATEME	NT ===	1FN(5)	<b>5</b> 8	0/
GO	TO 80			t na ana amin'ny soratra amin'ny soratra dia mampiasa yana manana amin'ny soratra dia mangana yana manana amin'	n 2 Matting an an ang an an dearman an ta Saga	ur ang		(b) and (b) the set of a state state state strategy and state
	NTINUE						1	
, <u>C</u> , <u>RE</u> , <u>EN</u>	TURN D	بردا این می برد این م	مریک ایرانی ا ایرانی ایرانی	in Salahan Bartan seri Salén kenangkan genera sar	را است الکو کو کر ایک کو			۲ - ۱۰۰۰ ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹ ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ -
- -		n i ge an dar fan ge ei fan sjon af de skrad finansjon fin en sjon af men		. * <sub>10</sub>	~~~~			19 <b>9</b>
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· SLOSH 02/6 1000 ł LIST DECK SIBFIC INT3 -; • . . 52 ě. •

		SLOSH INT3	•• EFN	SOURCE	STATEMENT	- IFN(S)	•••	02/2
100 S	S C C	UBROUTINE IN-63 OMMON/XW/XG(8), OMMON /GAUSS/NC	(F) WG(8) MDIX(4)	_M(8)			Į	ana a san
	C A D D	01MON /PARAM/M, NS=0.0 0 10 1≈1,2 0 10 J≈1,Nord	, N, JNN, J	NN , RR , ZZ	<sub>\$</sub> FUNC <sub>\$</sub> ANS			n frankriser (deliger (del
	2 U G	0 10 (2,4),1 =-XG(J) 0 TO 5						an an a an a a a a a a a a a a a a a a
and a second	4 0 5 R C 10 A	=>G(J) R=U+O∗5 ALL F NS=ANS+FUNC*wG{						
	R   E	<u>ETURN</u> ND						2017/100 - 2010/100 - 1
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SLUSH ... 0,2/2 . l SIBFTC FINDR LIST DECK ł . : . , • 1.00 1 5  $\square$ 54 e. . .

	SLOSH FINDR - FEN SOURCE STATEMENT - IEN(S) -
a Sanaga a Sanaga an Sanaga an Sanaga Sanaga S	
	SUBROUTINE FINDR (1,ZZ, R)
	COMMON /SEG/TYPE(50), HEGRPT, RPUINT(50), BEGZPT, ZPOINT(50), RC(50),
	$2ZC(50), A(50), \sigma(50), GAMMA(50), GAM(50)$
	INTEGER TYPE, ARG
ter en senten la compre de la compre	$\frac{1F(ZZ-ZPO(NT(1)) 2, 1, 2)}{1}$
	1 RR=RPOINT(I) '
ger ann annar fait anna 1870 bann anna	RETURN
	$\frac{2}{2} \frac{1}{10000000000000000000000000000000000$
	3 KRWKFUINI(I=1) Retubn
	4 R1m0.0
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angena a ser ever ender tradición a ser	60  TO (5.35.40).686
	5  Cl = 72  H Z  Cl (1)
and the second sec	C2=SIN(GAM(1))
	C3=COS(GAM(1))
Annual for all out of the second states in the Participation of the	C4 = (C2 + B(1)) + 2 + (C3 + A, 1) + 2
	C5=(C3*B(I))**2+(C2*A(I))**2
	C6=2**C2*C3*(B(1)**2=A(1)**2)
	$C7 = (C_1 * C_6) * * 2 = 4 * * C_5 * (C_4 * C_1 * * 2 * (A(1) * B(1)) * * 2)$
	1F (C7) 100,10,10
	10 R1=RC(I)+(-C1+C6+SNRT(C7))/(2+*C5)
	R2=RC(1)+(-C)*C6-SQRT(C7))/(2*C5)
	60 10 70
<u>.</u>	35 RR=RPOINT(1=1)+(KPOINT(1)=RPOINT(1=1))/(ZPOINT(1)=ZPOINT(1=1))*(72
/	2-ZPOINT(1-1))
	RETURN
an a	$40 \ c_{1} = 27 - 2c(1)$
	$IF (GANMA(1) \cdot FQ \cdot 90 \cdot 0) GO TO 50$
	IF (GAMMA(I).NE.270.0) GO 10 55
	$R \approx RC(1) + C1 \approx 2/(2 \cdot U \approx A(1))$
•	RETURN
5 - C	$50 RK = RC(1) = C1 * * 2/(2 \cdot U + A(1))$
Sector and and a Coll Proceeding State and the State	<u>RETURN</u>
	55 LZ=SIN(GAM(I))
	CA=(1+C)+A=+B(1)+CA CA=(1+C)+A=+B(1)+A=(1+C)+A=(1+
and the second se	An R = RC(1) + (mc + SQRT(C6))/(2 + sC3 + s2)
	R2 = RC(1) + (-C5 - SQRT(C6)) / (2 = C3 + 2)
	60 TO 70
	100 WRITE (6.101) 1
	101 FORMAT (IHD. 15HSEGMENT NUMBER .12.11H IS INVALID)
	CALL EXIT
Alf from the constraints of the first of the	70 1F (R1+LT+0+0) R1=0+0
	1F (R2.LT.O.O) R2=0.0
, A	IF ((RI-RPOINT(I))/ABS(RI-RPOINT(I))-(RI-RPOINT(I-1))/ABS(RI-RPOIN
	27(1-1)) 94,96,94
) }	94 RR#R1
-	RETURN
	96 IF ((R2-RPOINT(1))/ABS(R2-RPOINT(1))-(R2-RPOINT(1-1))/ABS(R2-RPOIN
	2T(1-1)) 98,100,98
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· · · · · · · · · · · · · · · · · · ·	98 RR=R2 RETURN		•					
	END							
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To be the second se			ין אין באש אי אישל געשיאניערע אין אב אוויזי איש אינער איינער איז אינער איינער איז אינער איז אינער איז אינער אי אין געראיז איז איז איז איז איז איז איז איז איז		nin analas ang ang ang kanang kan		an an an an an air an	1999 yi 199 alata sa 199 ar anasa 19
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a mana apagan an anana an		ann an chanaichte an an an tha an san an an an an an an tha an		gan bir interas ganadari antan markan ti mit an anang mahagara marka si m	e strand, nangenet antang bata ata ata bitu straja ta gara gira angan ata ata ata ata ata angan manga 1 1	ant repairing the contract of the contract of the second		a na mana na kaona na kaona na
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	SLOSH FINDZ - EF., SOURCE STATEMENT - IFN(S) -
) }	SUBROUTINE FINDZ (I, RR, JZ)
	COMMON /SEG/TYPE(SU), REGKPT, RPUINT(SU), BEGZPT.ZPUINT(SU), RC(SU),
	22C(50), A(50), B(50), GAMMA(50), GAH(50)
	INTEGER TYPE, ARG
and the second second grade and	IF TRETEINT STATES
	$\frac{1}{2} \frac{2}{2} \frac{2}{2} \frac{1}{10} \frac{1}{10} \frac{1}{10}$
1	$2 \text{ tr} (\text{RD} \text{PDINT}(1 \text{NI}) 4 3^4 4$
	2  1  (N  (N  (N  (N  (N  (N  (N
	RETURN
	4 Z I = 0 A O
Level With concerning on the	
	ARG=TYPE(1)
	GO TO (5,20,25), ARG
	5 C1 = RR = RC(1)'
	C2=SIN(GAN(1))
	C3=COS(GAM(1))
	$C4 = (C2 + B(1)) + + 2 + (C3 + A_{1}) + + 2$
	C5=(C3*B(1))**2+(C2*A(1))**2
	C6=2.2*C3*(B(1)**2*A(1)**2)
	C7 = (C1 * C6) * * 2 = 4 * C4 * (C1 * * 2 * C5 = (A(1) * B(1)) * 2)
	1F(C7) = 100, 10, 10
	$\frac{10 \ Z1 = 2C(1) + (-C) * C6 + SWRT(C7) / (2 * C4)}{10 \ Z1 = 2C(1) + (-C) * C6 + SWRT(C7) / (2 * C4)}$
	22 = 2C(1) + (-C1 + C3 - SQR)(C7)) / (2 + C4)
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	1F (GAMMA(I) NE 180.0) GU TU 40
	$72=2C(1)=C_{1} + 2/(2,0) + A(1))$
	RETURN
·.	-35 ZZ=ZC(1)+C1+*2/(2+*A(1))
to construct the control of the	RETURN
	40 C2=SIN(GAM(I))
-	C3=COS(GAM(I))
	C4=2.0*C2*C3
	$c_{5=c_{1} \neq c_{4-2} \neq A(1) \neq c_{3}}$
	$C6 = C5 + 2 - 4 + C2 + 2 + (C_1 + C_3) + 2 + 2 + 2 + A (1) + C1 + C2)$
Prof. Profile and street of the	1F(C6) 100, 45, 45
	45  Z1 = ZC(1) + (=C5 + SQR1(C6)) / (Ze + C2 + 2)
	$\frac{72^{2}2((1)+(m(5^{m}5)(1)(0))/(2e^{2}(2^{*})^{2}))}{(0,m)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)$
	GU [U 50] Mode BRITE (A 101) [
A	$\frac{100 \text{ WAXIG (0,1017)}}{101 \text{ FORMAT (IR0.1585FGMENT NUMBER (12.118 IS INVALID)}$
	CALL FXIT
p, converse here.	50 1F ((71-ZP0INT(1))/ABS(Z1-ZP0INT(1))-(Z1-ZP0INT(1-1))/ABS(Z1-ZP0IN
	$2\gamma(1-1))$ 55,60,55
4	56 ZZ=Z1
3	RETURN
3	60 IF ((72-ZPOINT(1))/ABs(Z2-ZPOINT(1))-(Z2-ZPOINT(1-1))/ABS(Z2-ZPOIN
e Bistoria	27(1-1)) 65,100,65
	65 ZZ=Z2
1	RETURN

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			nte munime sus particularios con e a con 1970 a con con-			9 Marine 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 19 Marine - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 20		에 가격하는 데이지 않는 데이지 아파니다 가격하는 것이 있다. 그가 있는 것이 가 가 가 있다. 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가
•		1.077 Mar 1.076 Mar 1.076 Mar 1.076 Mar 1.076 Mar 1.076	angebanensette begin op regençele, konstel by - e op	, en el anti agginte entre statut que en tra statut que que entre a		angelie alle fait de comparte d'un de la seconda que com	un yang mengemberhang pangan kananakan pangan kananakan sebagai kananakan sebagai kananakan sebagai kananakan s	ana ana amin'ny sora dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia ka
-		anarangan araw aka sa mujur sujang ananan su	alaan ili saaraa ili saaraa ina mara gunaanaa ili saraa na	an maine a namma a na an 1 Agus an garann a mmir agus ng agas na	a ant a' facha Mandarana	annyug yan sinanjadigan wasa mananja	يون در وارد منهور دارون و رود ورود و رود و رو ورود و رود	an alguna tamah garan sa sa sa
		anna 1, an						
		an 1999 managana a shi khiri a taon kan kan ka da afar sa sa	anna an suit <del>te</del> Maaraan ku tutuk (**), anna					and the second
		aler men sen se se se an en an mens se alla de la constante de la constante de la constante de la constante de	a ngalampanakan nu la pulo na pula pulo na suka suka suka suka suka suka suka suk	na an statute a san an a	ner 18. anna an Star Star Star	and a second of the second of the second of the second second second second second second second second second	alaadatta Afrik Afrikka ahaa Maangi Afrika Agaan sa may maa	
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· SLOSH 02/2 SOURCE STATEMENT - IFN(S) EFN F 2 **5**10 85p SUBROUTINE F2 • CONMON /PARAM/H.N.JNM, JNN. RR, ZZ, FUNC, ANS 1 FUNC=RR##2 RETURN END STAR W Į. 1000 6..... ÷. ير بد تعدير • • 1.000 ٠ . 1 **A** ALC: NO 63 Ì 8 1 P .

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	SUBROUTINE F5 COMMON NSEG,LEVEL,ZCG,L,D,H,AS,VOL,PI,EPSL,RHO,MODES,ZBDT,IDEGK, 2GI,G2,G3,ZDIV,DZ(2) COMMON ZPARAHZM,N,JNN,RR,ZZ,FUNC,ANS FUNC=RR*(ZZ-ZCG)**3
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	SUBROUFINE F7 COMMON NSEG,L 261,62,63,ZDIV	rVEL,ZCG,L, ,DZ(2)	. D . H . A S . 1	VOL, Pl, EPSL,	RH0,MODES.78	pr,IDEGR,
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	CALL BESSEL ( FUNC=(FLOAT(2 2EXP(JNN*(ZZ=Z RETURN	ARG,81,810) *n-1)*(RR/4 CG1/A5)/A5	\ \\$)##(2#	4-1)*JNN*81D	+(RR/AS)**12	2≉M=2)≄61) <sub>∞</sub>
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	SLOSH F9 - EFN SOURCE STATEMENT - IFN(S) -
	SUBROUTINE F9
	2G1,62,G3,ZDIV,DZ(2) COMMON /ELEM/MORDER,MPDLY,JN(5),NORDER,NPOLY,ACOEF(10,10)
for one sector matrix (1). Soft are matrixed and	COMMON /PARAM/M.N.JNN.RR.22,FUNC,ANS REAL JN.JNM.L I=M-MPOLY
	IF (I) 5,5,10 5 FUNC=((ZZ-ZCG)*RR**(2*M))/A5**(2*M+2) RETURN
	$\frac{10 \text{ JNM}=JN(I)}{\text{ARG}=JNM*RR/AS}$ CALL BESSEL (ARG.B1.B.D)
	FUNC=(ZZ-ZCG)*RR*B1*EXP(JNM*(ZZ-ZCG-L)/AS)/AS**3 RETURN
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•	F12 - EFN SOURCE STATEMENT - IFN(S) -	*••
· · · · · · · · · · · · · · · · · · ·	SUBROUTINE F12 COMMON NSEG.LEVEL,ZČG,L <sup>°</sup> D,H,AS,VOL,P1,EPSL,RHO,MODES,780T,IDEGR, 2G1,G2,G3,ZDIV,DZ(2)	****** * **
	COMMON /ELEM/MORDER,MPO,Y,JN(5),NORDER,MPOLY,ACOEF(10.10) COMMON /PARAM/M,N,JNM,JNN,RR,ZZ,FUNC,ANS IF (M.GT.NPOLY) GO TO 10 FUNC=0.0	
	IF (ZZ*EQ*ZCG) RETURN DO 5 I=1,M 5 FUNC=FUNC+ACOEF(M,I)*(RR/AS)**(I+2)*((ZZ-ZCG)/AS)**(N=I)/AS	Minger
	RETURN 10 ARG=FLOAT(H-NPOLY)*PI&RR/H CALL PMOD8S (ARG,P85,P85P)	
	FUNC=PBS*COS(FLOAT(M=NPOLY)*PI/H*(ZZ=ZCG+D))*RR**2/AS**3 RETURN	
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	SUBROUTINE F1 COMMON NSEG.L 2G1,G2,G3,ZDIV COMMON ZPARAM FUNC=RR**3*(Z RETURN	4 EVEL,ZCG,L, ,DZ(2) /M,N,JNM,JN Z-ZCG)	D , H , A S , N	/OL, PI, EPSL, FUNC, ANS	KHO,MODES,78	DT,IDEGR,
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e andre and second		na any managina dia kaominina dia kaominina mpikambana aminina mpikambana mpikambana mpikambana mpikambana mpika	ne ( na pys), som ne nækken skriver i en myslyn ægen som so	יוני אין איז איז און איז אין איז אין איז	an mana mana kata mana sa ana mana mana mana mana mana m	الم مرد مرد معرف المرد من معرف من معرف المرد	nar varant far sjon varante far jon i stolen ar fanken ser setter o
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Contractions		n na mang utam manananan kala yan na na utaman ka na manana kanana ka ka manana ka ka n	*	nna ann an San San San San San San San S	a nonneauraí i Shonargað að sað sag ý forðrinn úrans i nonnar Shonargan a jula	das menenanas provintenas array na regionar con con construitos das secondos con construitos das secondos con constru	
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4 June 74 - August		for an out-of-sector approximation and the state sector field $\phi_{ij}$ , and sector field $\phi_{ij}$ , and sector field $\phi_{ij}$	aany kaominina dia kaominina aminina mpikambana aminina kaominina dia kaominina dia kaominina dia kaominina dia	men menn mitter samte för som ette utterationen andersonale andersonale mitterationen av		nan an	
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Salah antara kananya		antara nga paga ta mini pinaga anga anga anga anga panga panga anga	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			an a	nna annaith na 1 Nagaraichte (go hGeann na saonair Ador annaithe ann feannairte na
			80	and and a set of the Million Na and a set of the Million ( A set of the Set	-		n n yayamanya kalan dalamatan ing nang nang nang nang nang nang nan
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$u_{2,2}:=u^{2}u^{2} \overline{u}^{2} \overline{u}^{2}$	SLOSH F15 - EFS SOURCE STATEMENT - IFN(S) -
· · · · · · · · · · · · · · · · · · ·	SUBROUTINE FIS
	COMMON NSEG, LEVEL, ZCG, L'D, H, AS, VOL, PI, EPSL, RHO, HUDES, 7807, IDEGK, 261, 62, 63, ZDIV, DZ(2)
1	COMMUN /ELEM/MORDER, MPOLY, JN(5), NORDER, NPOLY, ACOEF (10.10)
i	$COMMON / PARAH/M_s N_s JNH_s JNN_s RR_s Z 4_s FUNC_S ANS$ $C = FLOAT (H = NPOLY) & PI/H$
•	ARG=C + RR
*	CALL PHODES (ARG, PESN, PESPN)
	ZARG = (ZZ - ZCG)/AS
agasana yana wasaa ahaa ahaa ka sa	DD=FLOAT(H=NPQLY)*P1/H
- 14 	CALL PMODBS (ARG, PBSH, PBSPM)
	A=1PB5PM*PB5PN*RR*C*DD+PB5M*PB5N/RK)*A5
	B=C+DD+RR+AS+PBSH+PBSN P=S1N(C+D)
ر در ویک کار میکور میکور میکورد و چو	Q = SIN(DD = D)
	R = C O S (C * 0)
	5=CUSIDD*D7 E=A*P*Q+B*R*S
·	F=A&R*S+U*W*P
And the second sec	P=(C+DD) #AS
the state of the s	Q=(C=0D)*AS
)	
<ul> <li>A company in the second se</li></ul>	$FUNC = (\{E = F\}/P \neq SIN(R) = (E \neq F)/Q \neq SIN(S) + (G + HH)/P \neq COS(R) + (C + HH)/Q \neq COS(R) = (C + HH)/Q \neq COS(R) + (C + HH)/Q \neq COS(R) = (C + HH)/Q = (C + HH)$
و می اور	2C05(5))/AS/2+U
	5 A=(RK+PB5PN++2+C++2+P35N++2/RR)+A5
files regionaling an initial differential of the	B=RK*PBSN**2*C**2*AS
	FUN(=(=A*(2Z=2CG)/AS*(A=0)/(C*AS)*(C*(2Z=2CG*G)/2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0.25*SIN(2*U=0
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antan (	ana any amin'ny tanàna mandritra mandritra dia kaominina dia kaominina dia kaominina dia kaominina dia kaominin	e a na antina da se ao referencia en el nacione en el nacione de la referencia de la desensación de la desanación a	nan 1 an e- 1 agus costanti an t-costatici e ta terreta e terreta de terreta de terreta de terreta de terreta	aan aha qaada ahay iiraa wayaabar ah aryuwaa ah waxaa ahaan ahaana	مىلىيە تەرىپىلەر بىرىكى بىرىكە يەرىكە يە يەرىكە يەرىكە	alartin un al fini dei manetatio i graduit anna manna desenan anna sum sam
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erenter un annat met d'Anna a read	a na mangalan ngangan kana pangan kana pangan kana na mangan nganan nanan nanga nangananga	nadionale fait i non con con con con con con con con con	na, pinan na ina garanta na gapinan kata di ana, dani ang panakat a kanan	an ann a mha chuir an an tha ann an tha ann an tha an tha ann an tha ann an tha ann an tha an tha an tha an tha	nang na analasiyana kasar kasar kasar kasar kara saka kasar kasar kasar da ka	
1997 - The Control of		an managana an	gan na sanah buga ng Padasana na sa Paganah na Padasana a Pa	n a gana shika mana yana oʻng yagana ƙwalan ƙwalan ƙasar Inga an Angalan ƙasar Inga an Angalan ƙasar Ingalan ƙ M	na al fan i sann an fan fan i san a fan an a fan ar an ar an ar an ar an a	
1999 - T. S.		n andren yn frifeinio fan franzen en yn general a de general a general a gener i general a general a		yn y far y germennen de <sub>be</sub> y e er en	n Markana ana amin'ny kaodim-paositra dia GMM amin'ny tanàna mandritry amin'ny tanàna mandritry amin'ny tanàna d	an mar an fair an
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		مىسى قۇر يىلى مەر يەر يەر تەرىكى تەرىپى بىرى قارا تەرىپى بىرى يەر تەرىپى				
			u un de camérica de la que de la composition de			
			ung units ang pang ang pang ang pang ang pang pan	nn fallen y fa <sub>llen m</sub> ara analasa akki mini in Manay anganan karaja yang manang yang manang yang angan	na na posta na sela a fragos na entre Melez (appendinte fragmente esta del para para tato de se	gang and samily gamman in an i gay gamman'n i san a tri y ar tri y shaan bahay sha an bar ta' san
		unan karan kana munan dita dinama menjada kana kana pertahan na mana kana kana kana kana kana kana	na a como minera gage managante da el segundo co 1973, e y una decom depoyo y e una technolog	anala ku yu yumun adala sasaliya dalama sa sasa sa a sa a sa a sa a sa a s		Laborer rendal die frantiscus (alberter) als Balanter (b. alberterer (Blackerrer (Blackerrer (Blackerrer (Black
<u>`</u> .				nan makangang a makanggan an ang Profesi (Ali Panggan ang Profesi ang Profesi ang Profesi ang Panggan Ang	an an ann an t-an an ann an t-an ann an t-an an an t-an ann an t-an an t-an t-	
		ner worden der im wij en wolken volket einer operationen gehannen kon	nan an an San San San San San San San Sa	سیانی و در این	n kun sening di Bergagnian ng Planc, san kun ng Bergani di suk di Bergani di suk di Bergani di suk	n yan da gala yana nang sang kunang ina sang nina kunang nina kunang kunang kunang kunang kunang kunang kunang
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ana a Tanifa Indonesia a Angelang Ang		lan municipal da guno, ante annando e Ganzo plana con un deservo.	a national sector and a sector of the sector and a sector and a sector of the sector of the sector of the secto	anna an Anna an Anna ann an Anna an Anna an Anna an Anna ann an Anna an Anna an Anna Anna Anna Anna Anna Anna A	n yn yn arwydr o raf yn ar ar farfon yn ynan ar faf yr yn ddoner y dy'n o ddon ryffar yn yn ar yn yn yn yn yn y	n man an a
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		nin en general de la construit de la construit L	ngan tahung menangkan dan panganan kana katalan panganan kana katalan panganan katalan katalan katalan katalan L			nna an an Anna Anna Anna an Anna an Ann
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	SLOSH F16 - EFN SOURCE STATEMENT - IFN(5) -	021
.)	SUBROUTINE FIA	
	261,62,63,ZV1V,DZ(2)	
	COMMON /ELEM/HORDER, MPOLY, JN(5), NORDER, NPOLY, ACOEF(10,10)	
1	ZARG=(ZZ-ZCG)/AS	
)	FUNC=0 = 0	
-	DU = 5  K = 1  , N	
}	5 FUNC=FUNC+FLUAT(K*I+1)/FLOAT(M+N~I~K+1)*ACOEF(N,K)*ACOEF(M,1)*	
s to the second s	$\frac{2(RR/AS) * * (K+1-1) * ZARG * (H+N-1-K+1)/RS}{DO(10) K=1.N}$	1
)	DO 10 I=1,N	
	$\frac{1F}{N} = \frac{1}{N} + 1$	
3	2ACOEF(H+1)*(RR/AS)**(K+1+1)*ZARG**(N+H-K-1-1)/AS	
~~~~~	LO CONTINUE	- Maria - Maria - Maria
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	- <u>SLOSH</u> F17 - EFH SOURCE STATEMENT - IFN(S) -
alaan oo Salaa ah ah ah	
	SUBROUTINE F17
	COMMON NSEG, LEVEL, ZCG, L, D, H, AS, VOL, PI, EPSL, RHO, MODES, 7807, IDEGR,
	261,62,63,201V,D2(2)
	COMMON /ELEM/MORDER, MPO, Y, JN(5), NORDER, NPOLY, ACOEF(10.10)
A Sugar - Street and Street Street	COMMON /PARAM/M, N, JNM, JNN, RB, ZZ, FUNC, ANS
	FUNC=0,0
	ZARG=(ZZ-ZCG)/AS
	IF (ZARGERODOU) RETURN
	STOR=FLOAT(N=NPOLY)*PI*AS/H
	ARG=FLOAT(N=NPOLT)*Pl*KR/H
and a construction of the second states of the second states of the second states of the second states of the s	CALL PHOUBS (ARG, PBS, PBSP)
	ARG=FLUAI(N=NPULT)*FI/H*(22=24G+01
	$\frac{[2][2]}{[2]}$
	$\frac{1}{10} \left( \frac{10}{10} + 10$
na oʻr toʻra ta'na ta'na oʻ	$\frac{GU}{U} = \frac{GU}{U} $
	$\frac{6}{2} = \frac{6}{2} = \frac{6}$
	$\frac{224800 \pm 6101 \pm 01 \pm 01801 \pm 01801}{10 + 1000 \pm 6100 \pm 6100} = \frac{224800 \pm 01800}{10 + 1000 \pm 6100} = \frac{224800 \pm 01800}{1000 \pm 61000} = \frac{2248000}{1000 \pm 61000} = \frac{2248000}{10000} = \frac{224800}{10000} = \frac{2248000}{10000} = \frac{224800}{10000} = \frac{224800}{10000} = \frac{224800}{10000} = \frac{2248000}{10000} = \frac{224800}{10$
	15  TEMP=TEMP+FIGAT((MM)*(MM=1)*(MM=2)*(MM=3))/STOR**5*7ABG**(MM=4)*
	2SINIARG)
	20 TEMP=TEMP=FIOAT((MM)*(MM=1)*(MM=2))/STOR**4*ZARG**(MM=3)*CUS(ARG)
	25 TEMP=TEMP=FIOAT(( $hh$ )*( $hM=1$ ))/STOR**3*ZARG**( $MM=2$ )*SIN(ARG)
	30 TENP=TEMP+F1 OAT(MN)/STOR**2*ZARG**(NN~1)*CUS(ARG)
	35 TENP=TEMP+ZARG**NM/STOR*SIN(ARG)
	50 FUNC=FUNC+(STUR*PBSP*FLUAT(1)*(RR/AS)**1+PBS*(RR/AS)**(1-1))*
	ZACUEF(N,1)*TEMP/AS
1997 - Bright String, 1997 Bri	· 00 100 1=1.M
	IF (M.EQ.I) RETURN
	TEMP=0.0
	1F (NM.EG.0) GO TO 80
	GO TO (75,70,65,60,55),MN
	55 TEMP=TEMP+FLOAT((MM)*(MM-1)*(MM-2)*(MM-3)*(MM-4))/STOR**6*ZARG**
	2(MM=5)*SIN(ARG)
	60 TEMP=TENP=FLQAT((MM)*(MM=1)*(MM=2)*(MM=3))/STOR**5*ZAR6**(MM=4)*
	2CUS(ARG)
	65 TEHP=TEMP-FLOAT((竹竹)*(竹竹-1)*(村村-2))/STOR**4*ZARG**(村村-3)*SIN(ARG)
	70 TEMP=TEMP+FLOAT((MM)*(MM-1))/STOR**3*ZARG**(MM-2)*COS(ARG)
	75 TENP=TEMP+FLOAT(MM)/STOR**2*ZARG**(MM-1)*SIN(ARG)
	80 TEMP=TEMP=ZARG**MM/STOR*COS(ARG)
	100 FUNC = FUNC = STOR * PUS * ACOEF(N, I) * FLOA((N = I) * (RR/AS) * * (I + I) * IEMP/AS
	RETURN
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	SLOSH F18 = EFN SOURCE STATEMENT = IFN(S) =
•	SUBROUTINE FIR COMMON NSEG, LEVEL, ZCG, L, D, H, AS, VOL, PI, EPSL, RHO, MODES, 7BOT, 10EGR, ZG1, G2, G3, ZDIV, DZ(2)
	COMMON /ELEM/MORDER, MPOLY, JN(5), NORDER, NPOLY, ACOEF(10,10) COMMON /PARAM/M, N, JNM, JNN, RR, ZZ, FUNC, ANS IF (M.GT.NPOLY) GO TO IO
*	FUNC=n+0 DD 5 1=1+M 5 FUNC=FUNC+ACOEF(M+1)*(RR/AS)**(I+1)*((ZZ+ZCG)/AS)**(M+1+1)/AS RETURN
	10 ARG=FLOAT(M=NPOLY)*P1*RR/H CALL PMODBS (ARG;PBS;PBSP) FUNC=RR/AS*(ZZ=ZCG)/AS*PBS*C05(FLUAT(M=NPOLY)*PI/H*(77=ZCG+0))/AS RETURN END
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SLUSH 037 - EFN - SOURCE STATEMENT - IFN(S) -F28D SUBROUTINE F28 COMMON-NSEG, LEVEL, ZCG, L, D, H, AS, VOL, PI, EPSL, RHO, MUDES, ZBOT, IDEGR, 261,62,63,201V,02(2) CONMON / PARAM/M, N, JAM, JUN, RR, ZZ, FUNC, ANS-1 COMMON /ELEM/HORDER, MPOLY, JN(5), HORDER, MPULY, ACUEF(10,10) REAL JN. JNN. JNN ARG=JNN\*KR CALL BESSEL (ARG, BII, BIDI) ARG=JNM+RR CALL BESSEL (ARG, B1J, B1DJ) FUNC=(JN(11)\*JN(JJ)\*B1D1\*B1DJ\*RR +B11\*B1J // /RR) RETURN END-4 89 ÷ •

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	SLOSH E290	
	r 4 7 U	
	SUBROUTINE F29 COMMON-NSEG,LE 2G1,G2,G3,ZDIV, COMMON-ZELEMZHO COMMON-ZELEMZHO COMMON-ZELEMZHO	VEL;ZCG;L;D;H;AS;VOL;PI;EPSL;RHO;MODES;ZBOT;IDEGR; DZ(2) IORDER;MPOLY;JH(5);NORDER;NPOLY;ACOEF(10;10) 'M;N;JNH;JNN;RR;ZZ;FUNC;ANS /
	REAL JN, JNN ARG=JNM+RR	40101901030113001911900
	CALL BESSEL(AR)	(G, B1J, U1DJ)
	1 FUNC=(X11*AR6*)	(B1DJ+B1J)*(RR ) **(Z*1→2)
	2 FUNC=0.0	
<b>-</b>	RETURN	
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		• SLOSH 0.72
		JACOBI - EF., SOURCE STATEMENT - IFN(S) -
gan per per production (none for the set of		ARRANGE EIGE, VALUES IN DECREASING ORDER
	C C	REARRANGE EIGENVECTORS TO CORRESPOND TO EIGENVALUES
	C	NORMALIZE EIGENVECTORS W.R.T. THEIR LARGEST ELEMENT
		00 90 J1≈1, MODES
and the second		VALUE(J1)=U.
personal Mathematica Joint Standards	a general segment of the second s	$\frac{\text{DO} 40 \text{ J} 2 \text{ mJ} 1 \text{ N}}{\text{D} 2 \text{ mJ} 1 \text{ N}}$
	5 14	IF(VA(UE(JI) = A(JZ + I) = D) + U + I = D
Protection of the second	30.	$\frac{\sqrt{2}}{12}$
	40	CONTINUE
a second second second second second sec		$A(L_{1}, 1) = A(J_{1}, 1)$
		DU 50 J3=1.N
an designador or a serie de la serie d		VECTOR(J3,J1)=B(J3,L1,
And the state of the	50	B(J3,L1)≈B(J3,J1)
		$\frac{10070}{154}$
	4.6	FNORM=VECTOR(J4,J1)
a and a state of the	70	CONTINUE
	10	DO 60 J5=1.N
	80	VECTOR(J5, J1) = VECTOR(J5, J1)/FNORM.
		$VALP=1 \cdot / VALUE(J1)$
		WRITE (6,85) VALP, FNORM, IVECTOR(JS) 017, US-1907
• - + + + + + + + + + + + + + + + + + +	85	$\frac{FORNAT}{140.4X}$
	0.0	2NG FALLUR - LIZEDFIDAFFINERBENEEDE
	10	I CONTINUE
9	100	END
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policity of the state of the st	a para mangan ng kananang pang pang apang pang pang pang p	
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.-SLOSH 0-12 1 SIBFTC BLK LIST, DERK . . . · ÷ . . ,\* . 95 \* \* \*

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پیرون کار	SLUSH BLK	= EF.	SOURCE	STATENENT	≈ IFN(S)	1928	02
	BLOCK DATA COMMON /ELEM/MORDER, MPO, Y, JN(5), NORDER, NPOLY, ACOEF(18.10) COMMON /GAUSS/NOKD, X(8), w(8) REAL JN DATA MPOLY/5/ DATA NORDER, NPOLY/9,6/ DATA NORDER, NPOLY/9,6/ DATA NORD, X, w/8, 0,095012509, 0,028160355, 0,045801677; 0,61787624, 20,7554044, 0,8656312, 0,94457502, 0,98940093, 0,18945061; n,18260341, 30,16915651; 0,14959598, 0,12462897, 0,095158511; 0,062253523, 40,027152459/						
	END						
			997 ("Maranan Andreas San San Andreas A 1997 ("Maranan Andreas A				
na gana da Para parte a su ta materia da sere				1997 - La Marine Marine, a Jacobia (Jacobia) - Santa (Jacobia) - S			anganan ng paga ao ao a
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and a subscription of the second s			n paga ang amonggala na kalanten paga ata ang ang matan	ann an		n yn De wyt Meanwenn antillinger. Be ei hef nan sennach i'r Alwannen a Mhran.	adatist Provinsi se sa
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<u>SLUSH</u> 0.14 1 1 SIBFTC BESSEL LIST, DECK .• -140 ; . . . . 97 ÷. •
	SLOSH	0 2 / 2
an la company de la company	BESSEL - EFN SOURCE STATEMENT - IFN(S) -	
	SUBROUTINE RECSEL (ARG. B. DBDX)	n na fan en fan skrief fan skrief yn skrief yn skrief fan skrief yn skrief fan skrief yn skrief yn skrief yn s
	DIMENSION $A(7) \cdot B(7) \cdot C(7) \cdot D(7) \cdot E(7) \cdot F(7)$	
	DOUBLE PRECISION OPARG, DPSUM, DPTH , DPTHP , DP1, DPSUM1	
	DATA (A(1) + 1=1,71/+5 ,=+56249985 ++21093573 ,=+03954929 ++0	044331
	*9 ····································	
da arten Stata arte da 20 arte	DATA (B(1), I=1,7)/.79788456 ,.00000156 ,.01659667 .0001710	j , = • UD
	<pre>#2495110011365300020033 /</pre>	
	DATA (C(1),1=1,71/=2.3561944912499612000056500063	1879
	*000743480007982400029166 /	
	DATA (D(1) \$1=1,71/1.0 \$=2.2449997 \$1.2656208 \$=3163846 \$=0	44479
	*, -+ 0039444 , 0002100 /	
9 1. <b></b>	DATA (E(1),1=1,71/079788456 ,-+00000077 ,-+00552740 ,-+0000	9512 ,
	*•00137237 ,•00072805 ,•00014476/	
	DATA (F(1),1=1,7)/=+78539816 ,=+04166397 ,=+000003954 .+0026.	2573 ,
	*-·00054125 ',-·00029333 ··00013558 /	
	DPTH =0.0	
	DPSUM=0.0	an geografie en ante e
	IF (ARG)9990,1000,100	
	100 1F (ARG=3.) 200,200,500	and an an and the second s
	200 DPARG=AR6/3.0	
	00 30n l=1,7	alaanaa oo kaaliyaaa iyo ahee oo kuu taasaa oo kuu taasaa ahee oo kuu taasaa ahee oo kuu taasaa ahee oo kuu taa
, , , , , , , , , , , , , , , , , , ,	$DPTH=DPTH+D(1)*DPARG*_(2*1=2)$	
	300 DPSUM=DPSUM+A(1)*DPARG**(2*1-2)	an Biroraanin dhalan ar maaan ya alaa ay aqaa ahaa
	$B_1 = ARG * DPSUM$	
	DBDX=0PTH=B1/ARG	
	GU TO 10000 .	
	500 DPARG=3.0/ARG	an sann singan nagan tiyar tang tang tang tang tang tang tang tang
	OPSUHI=0.0	
	DPTHP=0.0	
	00 600 1=1,7	
•	UP1=OPARG**(1=1)	- 
	DPTHP=DPTHP+F(1)*0P1	
	DPSUH1=DPSUH1+E(1)*DP1	
4	DPTH =DPTH +C(I)*DP1	
	600 DPSUM=DPSUM+B(I)*OP1	al manda mana da ang mga panga pa
	DUM=SQRT(1.0/ARG)	
	DPTH=ARG+DPTH	
	DPTHP=DPTHP+ARG	
	BI=DUM *OPSUM*nCOS(DPTH)	
	DBPX=DUM+DPSUM1+UCUS(DPTHP)-B1/ARG	
inernantin muniteranisatio	GO TO 10000	a mari na mananana a Carana a Canana a canana a sa
	1000 81≈0•0	
	DBDX=.5	a ar an a marta an
	GO TO 10000	
	9990 WRITE (6,9991) ARG	
	9991 FORMAT (IHD, 4X, 28HBESCEL FUNCTION ARGUMENT OF , E12.5.	
eyaan yoogo ahaana waxaa	211H IS INVALID)	
	CALL EXIT	
	10000 RETURN	
•	END	
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SLOSH PMODBS - EFN SOURCE STATEMENT - IFN(S) -	021
SUBROUTINE PMODBS( X, BM1, BM1D ) C COMPUTES MODIFIED BESSEL FCN I AND ITS DERIVATIVE BY POLY. APP DIMENSION A(6), B(6), C(9), D(9)	PROX.
DOUBLE PRECISION 1,5,2,000 DATA A/000032411,000301532,002658733,015084934,051498869,0878 *4 /,8 /.0045813,00360768,02659732,102067492,300899424,30515622 DATA C/~000420059,001787654,~002895312,002282967,~001031555, *000163801,~000362018,~003988024, 039894228 /, 0/ 00039237 *01647633,002635537,~02057706,000916261,~000157565,000225319, *01328592, 039894228 / 1F ( X 0E80 00 ) 60 To 600	39059 29 / 77:=.
100 T = X/3*75 $120 S = T*T$ $150 IF ( X *GT* 3*75 ) GO TO 200$ $160 BM1 = X*((((((A(1) ))*S*A(2))*S*A(3))*S*A(4))*S*A(5))*S*A(6))*$	*S+,5
*) BMD= (((((((B(1))*S+B(2))*S+B(3))*S+B(4))*S+B(5))*S+B(6))*S+ GD 10 400 200 7=X	÷ ] e
BM1 = DEXP (Z)/DSQRT (Z) * (((((((((((((((((((((((((((((((((	2(4)) 2(4))
$\frac{1}{10000000000000000000000000000000000$	
BNID= •5 GO TO 500 END	,
)	
	مریک در در میشند است. همار در میشند است. مریک دست. مری میشند است. مریک در میشند در میشند است. مریک د
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SLOSH SOLVE

- EFN SOURCE STATEMENY - IFN(S) -

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- 3 ¥ 6 ¥ 6	SUBRONTINE SOLVE(NNIA, B.IN. EPSITMAX.X.IT)	<u>4 ¥                                    </u>
-	SOLVES AX=B WHERE A IS NXN MATRIX AND & IS NXY VECTOR	ç
		S
	I FOR FIRST ENTRY	L L
ан на на суларти на селото в области Фи	2 FOR SUBSEQUENT ENTRIES WITH NEW B	S
*** •••	3 TO RESTORE A AND B	S
,. 191	EPS AND ITMAX ARE PARAMETERS IN THE ITERATION	5
79 14 14	11 <b>=</b>	Ç
•-	-1 IF A 15 SINGULAR	
.* ** • • • • • • • • • • • • • • • • • •	D IF NOT CONVERGENT	•••• ••••• •
	NUMBER OF ITERATIONS IF CONVERGENT	
	CALLS MAP SURROUTINES ILOG2, DOT, SPUT AND DAD	
-	The construction construction of $\mathcal{L}(M, \mathcal{L})$ with $M(\mathcal{L})$ , where $\mathcal{L}$ is a subscription of $\mathcal{L}$	
<u>.</u> . 2	TO MODIFY DIMENSIONS, CHANGE THE NEXT 3 (NUT 2 BUT 3) CARDS, DIMENSION A(10,10), B(10), X(10), AA(10,10), DX(10), R(10), $2 \qquad 2(10), RH(10), IRP(10)$	
андорлата 🗳 наталага отторолог -	MA=10	and an
en 1	MA HUST = DECLARED DIMENSION OF SYSTEM	(
	EQUIVALENCE (R, DX)	1
	GO TO (1000,2000,3000),1N	
1000	N=NN	
	NMI = N = 1	م را معاور زمین ام م
	NP1=N+1	
<b>.</b>	EQUILIBRATION	
<b>.</b>		
	$\frac{1}{1} \frac{1}{1} \frac{1}$	
an a	$\sum_{i=1}^{N} \left( \frac{1}{2} + \frac{1}{2} + \frac{1}{2} \right)$	an mar an a thank a <b>f a</b> saon
5.0.3	$K T \Omega P = MA Y \Omega (K T \Omega P + T L \Omega G = (A (L + L)))$	
	$\frac{1}{2} R_{\rm M}(1) = 2 \cdot n_{\rm F} \phi (m K \tilde{1} \tilde{0} P)$	gana nan dan serien di n
	DO 509 = 1 + N	
509	$A(1,J) = A(1,J) \approx RH(1)$	
510	CONTINUE	
C		
C	SAVE EQUILIBRATED DATA	
C		
	UO 548 I=1,N	
	DO 548 J=1,N	
548	AA(I,J)=A(1,J)	1 8 1 Salta ataini 21.
C C	en en la companya de	
	GAUSSIAN ELIMINATION WITH MARITAL MIVOLING	
<b>.</b>		
	$\frac{\text{OU YY M=1, NM1}}{\text{TOP=405} (111)}$	
	$\frac{1}{1} \frac{1}{1} \frac{1}{2} \frac{1}{1} \frac{1}$	n (1997) an an Alban an Alban an Alban
	$VV + Z + mn_{1}N$ $1F(TOP_ARS - (.(N))) + (0.12.12)$	
1 0	1111010000000000000000000000000000000	
1 U	10AX#1 ************************************	
12	CONTINUE	
\$ %».	IF(TUP)14.13.14	
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	SUUSH SOLVE - EFG SOURCE STATEMENT - IFN(S) -	i
	Q 5 T HQ A	
14	122 (A) = 1 A X	
	10/160×00120×28×20	
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	TEUS ADS SA	
		Come Canal, an
25		
29		
	DU 33 I=MPI,N	
	$E_{H} = A(I_{M})/A(M_{M})$	
	A(I,M) = EM	
an a		1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -
31	00 32 J=MP1 + N	
3.2	$A(\gamma, J) = A(J, J) = A(H, J) * EH$	
33	CONTINUE	
99	CONTINUE	
	1RP(N)=N	
an a	1F(A(N,N))12n,113,12n	
113	17=-1	
	RETURN	
120	CONTINUE	
C	STORAGE FOR A NOW CONTAINS TRIANGULAR L AND U SO THAT (L+I). USA	
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C	UUPLICATE INTERCHANGES IN DATA	
Ç		
	00 229 I=1.N	•
	$\sim 1 \text{PelkP(1)}$	
	1 F (1 - 1P) 2 - 1 + 2 - 2 - 2 - 1	
221	$D \cap 222$ J=1.N	•
Bar fro d	TEMERAALI.I)	
a e je njer dan konstanje konstativ svjeta svjet	(500, 000, 100)	
220	AONTINE	
667		
<u> </u>	DEACECS SIGHT HADA SI F	
r .	PROLESS RIGHT HAND SINC -	
2000	$ \int D \left\{ \frac{1}{2} + \frac{1}{2$	6. Angel - 1973 -
2000		
······································	DU GUI I=1.N	
601	B(I) = B(I) * RM(I)	
-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DU 6U9 1=1;NM1	
	1P=1RP(1)	
ang gan tanah sa kang sa kang sa kang sa kang sa kang sa ka		
	B(I) = B(IP)	
	B(IP)=TEMP	
609	CONTINUE	
ς		
C	SOLVE FOR FIRST APPROXIMATION TO X	
C		
199	00 200 1=1:N	
200	$Z(1) = = SDOT(I = 1, A(1, 1), MA, Z(1), J_{s} = B(1))$	
•	DO 201 K=1:N	
	1=11P1=K	
201	X(1) = SDOT(N=1*A(1*1), NA*X(1*1)*1*=7(1*)/A(**1)	
C	e see we end a new can we ge grown here a here here here here here here he	
с	ITERATIVE IMPROVEMENT	nte banqui e de a

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	SLOSH SCHOOL SCHOOL STATENEN	
	SOLVE - ENG SUDRUE STATEMENT - INVISE	and and the structure products the structure course, where structure pro-
, man in the second state of t	1F(1TMAX/370,370,300	S
300		
	00 303 I=1.N	
303	TOP = AHAXI(TOP, ABe(X(1)))	5
	EP5X=EPS+TUP	S
C	FIND RESIDUALS	S
	00.319.1 = 1.1	S
319	$R(1) = DOT(N_{P}AA(1_{P}1), NA_{P}X(1)_{P}1_{P}B(1))$	S
С	FIND INCREMENT	5
	DO = 329 I = 1.0 N	S
329	$Z(I) = SDOT(I = I \circ A(I \circ I) \circ MA \circ Z(I) \circ I \circ R(I))$	5
	DO 339 K=1+N	5-1 -1
	[ # N P ] = K	<u> </u>
339	$D_X(1) = -SOOT(N-1_A(1, 1+1)_BMA_DX(1+1)_B_B-Z(1))/A(1, 1)$	S
C	INCREMENT AND TEST CONVERGENCE	S
	TOP=0.0	C, 1
	00 342 I=1.N	<u> </u>
	TCMP=X(1)	S
	$X(1) = DAU(X(1) \cdot UX(1))$	£
	$DELX=ABS$ (X(I) $\leftarrow$ TEMP)	٠ د
	TOP=AHAXI(TOP,DELX)	ç
342	CONTINUE	0
	1F(TOP-EPSX)381,381,369	\$
369	CONTINUE	Ś
370	1 T=0	C
381	RETURN	c.
C		<u>c</u>
C	RESTORE A AND B	د -
С		. 5
3000	CONTINUE	i.
	00 709 K≈1 N	<u>.</u>
	1 m N P 1 - K	Ş
	1P=1KP(1)	5
	IF(1-IP)701.709,701	ç
701	TEMP=8(1)	
	B(IP)=TEMP	
	$00.702 \text{ Jm} \cdot \text{N}$	
	TENP=AA(1.J)	-
	$AA(1, J) \approx AA(1,)$	
702	AA(IP,J) = 1ENP	
700	COLLENDE	
161	00.729 ]=1.N	
and an	B(1) = B(1) / RB(1)	
	00.729 $101.10$	
	$ = \frac{1}{1} \frac{1}{1} = \frac{1}{1} \frac{1}{1}$	
729	CONTINUE	, L
· f Sm /	RETURN	
	FND	4
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* /** <del>** *****************************</del>		n at a statut on a mag see on a statut of a factor

5 I B MA P	DØT	84, DECK, LIST		
* U£	I AND FR	RIENDS ROUT	INES FØR USE WITH SØLVE	DØT40010
agenegenantendere er det 1994	ENTRY	$D \varnothing T (N, A(1), M$	A,B(1),MB,C) DØUBLE INNER PRØDUCT	DET40C2C
	ENTRY	SDØT $(N,A(1),$	MA,B(1),MB,C) INNER PRØDUCT	D&T40030
	ENTRY	ILØG2 (A) F	LEATING PUINT EXPONENT	DØT40040
	ENTRY	DAD (A,B) A	DC WITH RØUND	D0740050
£		na mana kao manjaraha na mana mpikana kaominina mpika mpi	·	D2T4GC6C
SNAD	MACRØ	M STØRE N	EGATIVE ØF ADDRESS IN DECREMENT	D&T4CC7C
	SUB	= Ø100000	CØMPLEMENT IF PØSITIVE	DØT40080
	ALS	18		D&T40090
	STD	М		DØT4010C
	ENDM	SNAD		DØT40110
\$		ana any amin'ny faritr'i Andrewski amin'ny fanana amin'ny fananana amin'ny fanana amin'ny fanana amin'ny fanana		D&T40120
30 T	SAVE	1,2,4.		D&T40130
	STZ	S		D0T40140
	STZ	S+1		D&T40150
	CLA*	8,4	С	D2T40160
	LDQ	C+1		DET40170
•	STØ	С,		DØT40180
	CLA*	3,4	N	D&T40190
	TZE	NØNE	SKIP LØØP IF N = $0$	D&T40200
	STØ	N		DØT40210
	CLA	4,4	BASE ADDRESS ØF A	Det40220
	PAC	<b>,</b> 1	$X1 = -(BASE \ QF \ A)$	DET40230
	CLA*	5,4	MA	D2T40240
	SNAD	MA		DØT40250
-	CLA -	6,4	BASE ADDRESS ØF B	D0740260
on an an inclusion and a second second second	PAC	<b>,</b> 2	$X2=-(BASE \ \emptyset F \ B)$	D&T40270
1	CLA*	7,4	MB	D&T40280
2	SNAD	MB		DØT40290
	LXA	N , 4	X4=N	DØT4030C
LØØP	LDQ	0,1	A(I) ·	DET40310
	FMP	0,2	B(I)	D&T40320
	DFAD	S		D&T40330
	DST	S		De140340
MΔ	TXI	*+1,1,**	(X1) = (X1) + MA	D&T40350
MB	TXI	*+1,2,**	(X2) = (X2) + MB	D&T40360
· · · · · · · · · · · · · · · · · · ·	TIX	LØØP,4,1	END ØF MAIN LØØP	D0T40370
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	RETURN	DØT		D0140400
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1	STZ	S		D0T40430
	CLA*	8,4	$t^{*}$	DØT40440
an a	STØ	C		DØT40450
	CLA*	3,4		D0T40460
and a second sec	TZE	SNØNE		DRT40470
<i>.</i> *	STØ	N		DØT40480
	CLA	4,4		D0T40490
	РАС	, 1		D0140500
	CLA#	5,4		D0T40510
	SNAD	SMA	$t = \frac{1}{2}$	D0T40520
•	CLA	6,4		D2T40530
	PAC	, 2		DOTA0540
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an a	LXA	N•4		D0140570
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	I SUG HI IIHHIII	EG2F+0209,4	
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		$\frac{1}{2} \frac{1}{2} \frac{1}$		EG2E0094
*	TDA	1.4		EG2E0090
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		EGZEUI90
S I A	E62F+0195	EC2F0191
STA	E62F+0196	EC2F0192
STA .	E62F40197	EC2F0193
STZ	CØMMØN+OCO	EG2F0194
LXD	CØMMØN+000,1 00	EG2F0195
LXD	CØMMØN+000,2 00.	EG2F0196
CLA	* • 1	EG2F0197
LDQ	* 9 2	EG2E0198
STQ	× 0 ]	EG2E019S
STØ	¥,2.	EG2E0200
TXI	FG2E+0199.11	EC2E0201
ТХТ	EC2E4(12)). 2. *	EC2E0202
тхн	FC2F40106.2.8	
	C(MMM(N+DOO))	<u> </u>
		EG2FU204
ADD		EGZEG205
ADU	EGZE+U341	EG2F0206
210		EG2FC207
ТХН	EG2F+0192,1,*	EG2F0208
TRA	1,4	EG2F0209
PZE		EG2F0210
PZE	0,0,1	EG2F0211
PZE		EG2F0212
PZE		EG2EC213
PZE		E62E0214
PZF		EG2E0215
P7F		EC2E0216
P7F		
D7E		
1 ZL D 7 E	``	EGZEGZIG
r z.c.	COMMONICIA	EGZEGZEG
		EG2F0220
SXU SXU	<u>UDMMON+011,2</u>	EG2F0221
ULA		EG2FC222
SIA	E62F+0295	EG2F0223
STA	EG2F+0296	EG2F0224
SUB	EG2F+0344 -	EG2F0225
STA	EG2F+0266	EG2F0226
STA	EG2F+0283	EG2F0227
CLA	1,4	EG2F0228
STD	EG2F+0311	EG2F0229
SXD	CØMMØN+004,4	EG2FC23C
LXD	EG2F+0341,2	EG2E0231
STA	EG2F+0282	FG2F0232
STA	EG2E+0236	EG2E0233
AT2	FG2F+0239	EC2E0234
СТА СТА	EC2E+0326	ECOEPO2E
<u>СТА</u>	EC2E+/\228	
		EG2F023C
STA	E62Ft0200	EG2F0237
STA	E62F+0259	EG2F0238
LLA	<u>й</u>	EG2FC239
· STØ	U0MM0N+013,2	EG2F0240
CLA	EG2F+0343	EG2F0241
) STØ	*	EG2F0242
CLA	EG2F+0342	EG2F0243
STØ	CØMMØN+005	EG2F0244
CLA	CØMMØN+005	EG2F0245
ADD	EG2F+0344	EG2EC246
STØ	CØMMØN+005	EG2E0247
	110	
ę	3	- ighting

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ADD	EG2F+0259			EG2FC248
STA	EG2F+0259			EG2F0249
STA	EG2F+0273			EG2F0250
STA	EG2F+0285	na provinsi na politika (provinsi provinsi prov Provinsi provinsi provins	ին Դիլիս հետություն տեղեց չինչում հետության հերիչին ու է գահ չին, որ պատունեց անգացացից <sub>հա</sub> րում հետրապեսից ու է ստացացվեց է է	EG2FC251
STA	EG2F+0284			EG2F0252
STA	EG2F+0308	A 2017 Start St Start Start Star Start Start Star Start Start S		FG2F0253
STA	EG2F+0304		,	EG2E0254
SXD	EG2F+0267,2	<b>CØMP LAMBDA</b>		EG2E0255
L XD	EG2F+0342.4			EC2E0256
LXD	EG2F+0341.1	n - To - 1, 2023 American (Alfanzian-Angle States - 2023) An - 2023 (Alfanzian-Angle Anno 2020) An - 2020 (Alfanzian-Angle Angle An	n dan sa managing dikanadigi dina dikanda ana na sa manani na manani na panani na kanani na kana ka kana ka ka	EC2E0250
S XD	FG2F+0264.1			
	EG2E+0342.1			EGZEGZEG
ST7	COMMON+006			EGZEUZSS
100	* 4			EGZEGZÓU
EMD	л у <del>т</del> ж. 1			EGZEUZ61
	r annana ana		ի ուրուցի պետու այլ դերերությունը նունասությունը բրջությունը, որ ու որ ելիներին եւ տունենությունը եւ ու եր տունություն է	EG2F0262
				EG2FC263
				EG2FC264
	E02F+0203;4;=1			EG2F0265
	E62F+0264, L, -1			EG2F0266
I XH	EG2F+0258,1,*		•	EG2FC267
FUP	COMMON+UI3,1	n an ang geraph yan an a	a nambandiana an ang tao ang taon 1 ang 1 2 1 2 1 2 1 ang tao ang	EG2FC268
SIQ	* 1			EG2F0265
I XH	EG2F+0269,1,*			EG2F0270
IRA	EG2F+0271	· ·		EG2F0271
LXD	EG2F+0264,1			EG2F0272
TXI	EG2F+0255,1,-1			EG2F0273
SXD	EG2F+0275,2			EC2F0274
LXD	EG2F+0342,4		n manana kanananan gagi pepun untuk pilatan kanan kanan dari kanan dari kanan kanan kanan kanan kanan kanan ka	EG2FC275
STZ	* • 4			EG2F0276
TXI	EG2F+0275,4,-1			EG2F0277
ТХН	EG2F+0273+4+*			EG2F0278
TXI	EG2F+0277,2,-1			EC2FC279
SXD	EG2F+0290,2			EG2F0280
LXD	EG2F+0342,4			EG2F0281
<u> </u>	EG2F+0341,2			EG2F0282
LXD	EG2F+0342,1		•	EG2F0283
SXD	EG2F+0288,2			EG2F0284
LDQ	* , 4	A LAMBEA TIMES A RØW		EG2FG285
FMP	* <u>,</u> 2	-		EG2FC286
FAD	*,1	VECTØR WHICH WILL BE		EG2FC287
STØ	*,1	THE NEW RØW		EG2F0288
TXI	EG2F+0287,4,-1			EG2F0289
TXI	EG2F+0288,1,-1	_		EG2FC290
ТХН	EG2F+0282,1,*			EG2F0291
TXI	EG2F+0290,2,-1	· ·		EG2F0292
ТХН	EG2F+0280,2,*	END CØMP. NEW RØW		EG2F0293
STZ	CØMMØN+CO8	•		EG2F0294
LXD	EG2F+0288,2			EG2F0295
S X D	EG2F+0303,2			EG2E0296
L XD-	EG2F+0342,4			ÉG2F0297
LDQ	* , 4			EG2EC298
FMP	* • 14		anta anta mangana anta anta anta anta anta anta ant	EG2E0299
STØ	CØMMØN+007			EC2EC200
LDQ	CØMMØN+007			EG2E0201
FMP	CØMMØN+014.4		·	EC2E0302
FAD	CØMMØN+008			EC2E6282
- STØ	CØMMØN+008			ECZENZOA
TXI	EG2F+0303.41			EC2ED204
ТХН	EG2F+0295.4.*		•	EC2ED202
CLA-	* 1			EC2E0307
FSB	CØMMØN+GO8		×	EC2ED308
	· · · · · · · · · · · · · · · · · · ·	111 ·		LULI NG GUGU

	STØ	CØMMØN+014,2		EG2F0309
	CLA	EG2F+0343		EG2E0310
	STØ	* • Ì		E62E0311
a tanén antara kang melantan pana kana kana kana kana kana kana ka	TXT	FG2E+0310.21		EC2E0212
		EG2E+0267-1		EC2E0312
	TYU	CC2F+OCOTY		ECOENDIA
				EGZEUS14
	<u> </u>	$\frac{- C (2 \Gamma \tau ) (3 2 1)}{C (2 \Gamma \tau ) (3 2 1)} = \frac{1}{2}$	$I$ $\lambda$ 1 $I$ $\Delta$ $\lambda$	EGZEQ315
	1 X 1	E62F+V314+2+-2	∞ ( N + Z )	E62F0316
er one so and so and so and so and so	SXU	E62F+0334+2		EG2F031/
	LXD	EG2F+0342,1		EG2F0318
an an Martin Westman and the side of an and the side of the second side of the side of the second side of the s	CLA	CØMMØN+014,1		EG2F0319
	TSX	EG2F+0345,4		EG2F0320
ge om effektive star for stor for a fille formation of the	TRA	EG2F+0339		EG2F0321
	STØ	C0MM0N+014,1		EG2F0322
	ΤXΙ	EG2F+0321,1,-1		EG2F0323
8 (6 - 2010) (1977) (1978) (2010) (1977) (1978) (1977) (1977) (1977) (1977) (1977) (1977) (1977) (1977) (1977)	ТХН	EG2F+0316,1,*		EG2F0324
	LXD	EG2F+0341,6		EG2F0325
	LXD	EG2F+0342,1		EG2F0326
	ТХІ	EG2F+0325,2,-1		EG2F0327
	SXD	FG2F+0330.4		EG2E0328
	CLA	*.1	·	EG2E0329
ta a taran baran tara tara kata barta di kata	FDP	COMMON+012.2		EG2E0330
	STO	*.1		EC2E0331
	TYT	FC2F40320.11		EC2E0333
		EC2E16324 1 x		CC2CC3322
		$\frac{1}{10000000000000000000000000000000000$		EGZE0333
	JAU			E62FV334
a terretari de servicio e deservición de servicio de servicio de servicio de servicio de servicio de servicio d		E62F*(333)4 **		E62F0335
		E62F+0334+2,-1		E62F0336
	IXH	E62F+0325,2;*		EG2FU337
	LXD	C0MM0N+010,1		EG2FC338
	LXD	C0MM0N+011,2		EC2FC339
	LXU	COMMON+U04,4	<b>x</b>	EG2F0340
en anna fachara a bana an an an an ar an	TRA	4,4		EG2F0341
	LXD	CØMMØN+004,4		EC2F0342
	TRA	3,4		EG2F0343
	ΡZΕ	1,0,-1		EG2F0344
	ΡZΕ			EG2F0345
	DEC	-1.		EG2F0346
N	ΡZΕ	1	-	EG2F0347
	STØ	CØMMØN+000	SAVE ARGUMENT SIGN	EG2FC348
	SSP		N	EG2F0349
	TZE	EG2F+0365	GØ TØ EXIT IF ZERØ	EG2F0350
	STØ	CØMMØN+001	SAVE N	EG2F0351
an a	ANA	EG2F+0368	CØMPUTE TRIAL VALUE, X	EG2FC352
	LRS	1	X	EG2F0353
an a	ADD	CØMMØN+001		EG2F0354
	LRS	1	X	EG2F0355
	ADD	EG2E+0369	X	FG2F0356
	SXD	C.0MMØN+000.4	00 RETURN ADDRESS	EG2E0357
	ΙΧΔ	FG2E+0346.4	SET INDEX EØR 3 ITERATIØNS	EG2E0358
	STØ	CØMMØN+0D2	SAVE X	EG2E0359
Nama a fa sa	CIA	$\Gamma @MM@N+001$	COMPLITE SCHARE ROOT	EG2E0360
	EDH	CONNON+OD2		EC2E0361
		CANNANILOO2	X (YZZ)	EC2E0242
*	CIA			E02F0202
5 - 10 and a second	CLA EAD	COMMONT 202		
	FAU			
nenga nina nagara nagara nagara sagara Jangg	<u>- 208</u>	E62F+0368.		EUZHU365
	ILX	EUZETUJDO,4,1	KEPEAL LUKP	E62F0366
	LXU	COMMENTUDD,4		E62F0367
	LUQ	-COMMEN+000	IEST SIGN OF ARGUMENT	EG2F0368
	ΤQΡ	2,4	IF + , SKIP ØNE	EG2FQ369

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	TRA	1,4	IF - , DØ NØT SKIP ØNE	EG2F0370
	DEC	134217728,8657	343456 0*2 EXP -127, 1/2 * EXP -64	EG2E0371
	REM	VYEVV 328 CAL	RDS EIGENVALUES AND FIGENVECTØRS	EG2E0272
particular to the set of the set.	SXD (	C0MM0N+000,1	00 SAVE TRS	FG2E0373
	SXD (	C0MM0N+001.2	n na ser e vas ser e vas ser	EC2E0274
1999	SXD (	C0MM0N+002.4		E62E0376
	PXD		SAVE SITS	EC2E0274
		FG2F40694.1		EC260277
	ALS	1		E62F0571
enges de server en ser monte el comp	CITI	n en serie en		E62FU378
				EG2FU379
		$\frac{1}{2} \frac{1}{2} \frac{1}$		EG2F0380
		COCITUDIDALAL COCIDADIO		EG2FU381
- 1 - hai - Josephine - Joseph	CIA	C66FT0272		EG2F0382
		1 9 <sup>6</sup> 7 m 1	₿ <sup>N</sup>	EG2FU383
	ΡΑΧ	111 		EG2F0384
	STAI	262F+0488		EG2F0385
	SIA I	-62140334		EG2F0386
	STAT	=621+0536		EG2F0387
	STA I	=G2F+0538		EG2F0388
	STA E	EG2F+0558		- EG2F0389
- Parts - Prairie Prove	ADM 2	2,4	M 4 $N$	EG2F0390
	STA (	EG2F+0482		EG2F0391
	STA E	EG2F+0489		EG2F0392
	STA E	EG2F+0539		EG2F0393
400	STA B	EG2F+0543		EG2F0394
	CAL 2	2,4	N	EG2F0395
	STA E	EG2F+0381		EG2F0296
and the second sec	ADD E	EG2F+0375		EG2F0397
-	STA B	EG2F+0464		EG2FC398
<u> </u>	ALS	L 8		EG2E0399
þ	STD 6	EG2F+0604		FG2F040C
(	SUB E	G2F+0695	N-1.	FC2F0401
	STD B	EG2F+0465		EC2E0402
	CØM			FC2FC403
•	STD E	EG2F+0560		EG2E0404
· · · · · · · · · · · · · · · · · · ·	STD F	-G2F+0561		EC2E0405
	SUB F	-G2E+0696	- (N+1)	EC2E0406
	STD [	-62F+0567		EC2E0407
		2.4	N # # 2	EC2E0408
	MPY 2	- 7 ·		EC2E0400
		- 7 - 7 - 7 7 0 M N Q N + 0 0 3		
		. A	Nana 7	E02F0410
		NANJAAA	וי דוע איא צ	EG2F0411
		COELOAAI	n.	E62F0412
		LUZI TUMM1 COCLAAAD		EGZEG413
	514 t	02510/11		E62F0414
	SIA E			EG2F0415
	SIA E			EG2FC416
	STA L	c62F+U625		EG2F0417
	SIA E	G2F+0638		EG2F0418
	STA E	EG2F+0641		EG2F0419
	CØM			EG2F0420
	ADD E	G2F+0696		EG2F0421
}	<u></u> STØ (	CØMMØN+004		EG2F0422
	PXD	),1		• EC2F0423
	ADD (	COMMON+004	- (V-M)	EG2F0424
9	STDC	OMMON+004		EG2F0425
-	ADM E	G2F+0567	- (V-M)-N	EG2F0426
	STD (	00000000000000000000000000000000000000		EG2F0427
	CLA 2	2 + 4	FLØAT N	EG2F0428
	S S P	an an ann an an Aonra an Aonra Aonra Aonra Aonra Aonra an Aonra an Aonra an Aonra an Aonra Aonra an Aonra Aonra		EG2FC429
	ADD F	G2E+0697	· · · · · · · · · · · · · · · · · · ·	EC2EA426

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ere, energia anter por la conserva de la conserva d			
FAD	EG2F+0697		EG2F0431
STØ	COMMON+006		EG2F0432
CLA Tota	2,64	SET NØ VECTØRS	EG2FC433
IPL	EG2F+0594		EG2F0434
CLA	E62F40689		EG2F0435
519			EG2F0436
ULA CTC	E62F+0704		EGZEU437
510			EE2F0438
ULA Cra	E62F+0690		E62F0435
510			EG2FC44C
10V	$\frac{1}{2} \frac{1}{2} \frac{1}$	CALCULATE NODA	EG2F0441
512	CAMMANIANA 7	CALCULATE NORM	E62F0442
	3 1		ECZECAAA
	0,1		EC2E0444
<u>Τ ΟΥ</u> Τ Ο Υ	FC2F+3611	$\hat{S}_{i}$	EC2EC6445
EVD	COMMON+008		EC2F0447
Ταν	FG2E+0651		EC2E0448
STØ	COMMON+008		EG2E0449
TIX	FG2E+0441+1+1		EE2E0450
SLE	· · · · · · · · · · · · · · · · · · ·		EG2E0451
TSX	EG2E+0655+4		EG2E0452
FDH	CØMMØN+006		EG2F0453
STQ	CØMMEN+006		EG2F0454
CLA	CØMMØN+006	· · · ·	EG2FC455
SUB	EG2F+0698		EG2F0456
STØ	CØMM2N+008	FINAL NORM	EC2F0457
CLA	CØMMØN+006		EG2F0458
SUB	EG2F+0699		EG2FC459
STØ	CØMMØN+006	PRØVISIØNAL NØRM	EG2F0460
LXA	EG2F+0569+1	SET - (J-2)N - (K-1) = 0	EC2FC461
CLA	E62F+0534	UNDERSET J=1	EG2F0462
SIA CTA			EG2F0463
			EGZE0464
	COMMONICO3	3EI J-1-1	EC2E040J
עחק	0.2	CET I-K=1	EC2EC467
ТХН	FG2E+0576.2	J-K GREATER THAN N-1	E62F0468
CLA	FG2F+0522	J TØ J+1	EG2E0469
ADD	EG2F+0381		EG2FC47C
STA	EG2F+0522		EG2F0471
STA	EG2F+0525		EG2F0472
STA	EG2F+0557		EG2F0473
CLA	EG2F+0487		EC2F0474
ADM	EG2F+0464		EC2F0475
STA	EG2F+3487		EG2F0476
STA	EG2F+0540		EG2F0477
STA	EG2F+0542		EG2F0478
LXA	EG2F+0569,4	$\frac{\text{SET}(1-K)(N+1)=0}{2}$	EG2F0479
CLA	EG2F+0534	SET K=1	EG2F0480
SIA	E62F+0521		E62F0481
51A 674	ビウンドキャランド 一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一日の一		EC2E0402
C1 A	CAMMAN+106	N Ø R M	FC2F0403
C C A C R M	9.1	~ A ( .1 . K )	FC2F0485
TPI	EG2F+0564	GREATER THAN O	EG2F0486
SLN	4	SMALLER	EG2FC487
SXD	EG2F+0689,2	SAVE IRS	EG2F0488
SXD	EG2F+0654,4		EG2F0489
CLA		(L,L)A	EG2F0490
FSB	0,4	-A(K,K)	EG2F0491

ENL	<i>1</i> (2) 1		EC2E0402
	$ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $		EC2E//492
516	CONNEND		
したみ			
I M L	1.2	CLO AN IF C DECITIVE	EG2F0495
SLN	3	SLS ØN IF G PØSILIVE	ECZEQ496
SSF			E62F0497
SUB	EG2F40699		E62F0498
516	COMMENTOLI		EGZEU495
LUL	) LOMMEN+011		EGZEUSUL
F MF	COMMENTAL		EGZEUSUI
FAL	EG2F+0704	1+6**2	E62FU502
ST2	COMMON+012		E62F0505
TSX	( EG2F+0655,4	(1+6%*2)**1/2	EGZE0504
LRS	5 35		EG2FC5C5
FMF	° COMMON+011	<u>C(1+G**2)**1/2</u>	EG2F0506
FAD	D COMMON+012	+1+G**2	EG2F0507
STE	CØMMØN+011		EG2F0508
CLA	EG2F+0705	(SINT)**2	EG2F0509
FDH	I CØMMØN+011		EG2F0510
STO	CØMMØN+011		EG2F0511
CLA	CØMMBN+011		EG2F0512
TS>	< EG2F+0655+4	SIN T	EG2F0513
SLI	3		EG2FC514
SSN			EG2F0515
STR	COMMON+012		EG2F0516
CL.	EG2F+0704		EG2F0517
ESE	3 COMMON+011		EG2F0518
ΤS>	( EG2F+0655,4	CØST	EG2F0519
STO	COMMEN+011		EG2F0520
	EG2E+0569,2	SET MAIN MATRIX	EG2F0521
C1.4	EG2E+0560		EG2F0522
130	FG2F+0527	SET 1-1=0	EG2FC523
	0.2	$\Delta(K,T)$	EC2FC524
	0.2		EG2F0525
соз (2Т	<pre>&lt; 572 &lt; EC2E+0673.4</pre>	B(K.T).B(J.T)	EG2E0526
۲۵/ ۲۵	2 0.2		EG2E0527
5 FA	) // <b>/</b>		EC2E0528
	EC2EL0527 2 -1	Τ Τ Ρ. Ι Δ Ι	E62E0529
	J ECOELOSO1 0		EC2E053C
	$\frac{1}{2} = \frac{1}{2} $	T - 14	EC2E0531
	<ul> <li>く U</li> <li>へ C つ C + D 4 む 7</li> </ul>		EC2E4532
		1 – 1/	EC2E0523
	_ EG2F+0089	JA	EC2E0524
			EC2E0535
AUI		+(1-K)(N+1)	
PDZ	X U14	A / 12 I I TAL 330	
		A(K, J) IN MQ	EG2F0000
LXL	) E62F+0654+2	(1-K)(N+1)	EGZEV220
CL4	A 0,2	A(K,K) IN AC	EGZEGSSS
152	K EG2F+8673+4		EG2F024L
ST	0,2	B(K,K)	EU2F0541
CL/	A 0,1	A(J,K) IN AC	E62F0542
LDO	)	VM NI (L+L)A	EUZEU543
TS	x EG2F+0673+4		E62F0544
STO	J	H(J,J)	EGZE U545
STI	8 0,1	B(J,K)	EG2F0546
CLA	A COMMON+003		EG2F0547
<u> </u>	4		EG2F0548
A DI	D EG2F+0696	, •	EG2F0549
PD;	X 0,2		EG2F055C
CAI	EG2F+0689	K-J	EG2F0551
CØI	Υ		EG2E0552

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na anna martala a' daoineann an starachan	100	EC2E+0404				EC2EAEES
a a success day your weaked a constant, and		18		Γ.ΥΝ <sup>-</sup> J	an a an	FC2FC554
	AKS	10				EG2ECSSS
	ALU ATA	E62F+0556	an a	and a film for families to describe a first sector and a describe a sector and family and family and for any other and the sector and the sec	an the first of the second	EC2E0556
		EG2E+0569+4		SET I-1=0		EG2E0557
		0.4		Δ(Κ.Ι)		EG2E0558
	STØ	ñ.2		Δ(Ι.Κ)		EG2F0559
	C.I.A	0.4		A(J+I)	"naffe felfens" for energies free overlagen om en en en energies a fen en e	EG2FC56C
	STØ	6.2		A(I,J)		EG2F0561
	TXI	EG2F+0560,4,-1		I TØ I+1	an de la desentation de la constance en angle de sector de la constance (constance) en la sector de la constanc	EG2F0562
	TXL	EG2F+0562,4		I=N		EG2F0563
	TXI	EG2F+0555,2			namen og generalen en e	EG2F0564
	LXD	EG2F+0689,2		RESTØRE IRS		EG2F0565
)	LXD	EG2F+0654,4				EG2F0566
	TNX	EG2F+0569,2,1		J-K=1	and guide where we all sub-field with the second	EG2F0567
an faith an	CLA	EG2F+0521		K TØ K+1		EG2F0568
	ADD	EG2F+0381				EG2F0569
	TXI	EG2F+0568,4				EG2F0570
and a suspenditure state of the set	TXI	EG2F+0478,1,-1			n la gran antique antiques a consequencies de la marca des antiques propries de la forma activa d'activa d	EG2F0571
	PXD	0,1		M TØ M+1		EG2F0572
	ADD	CØMMØN+003	an an an an the state of the st	AND $K=1$	en met geven men formen han vergingen die fan er feliginge die provinsie verste ste en een verste ste ste best	EG2FC573
	ADD	EG2F+0567				EG2F0574
	PDX	0,1			ana, kangandapa perkemban pertakan sebara daka sebar terbian terbian terbian dakateran pertakan terbian terbian	EGZEUS 15
	CLA	CØMMØN+003				EG2F0576
	ADD	EG2F+9696	4-217 varies 4_1-1-1-1-4-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			EG2FUS(1
	TRA	EG2F+0463				EGZEUD78
	<u>SLI</u>	4	an dina dia mpikaban di kara di manana di m	IS HERAHIØN IDLE	aar do waa jiwayila a <b>d</b> ariya baya ka mada waxaa ay a	ECZECECC
	TRA					EG2F0000
					na principana na katalaha kari dalam katalahan katalah dalam katalah dalam katalah katalah katalah katalah kata	EC2E0582
				15 NORP FINAL		EC2E0582
						EG2F0584
				RESTARE SLIS		EG2E0585
		EG2E+0373	aan a araa mada mayoo 1 mili a cadhada daraan		ang dan para da mang mang mang mang mang mang mang man	EG2E0586
		3				EG2F0587
	IRT	· ·				EG2FC588
	SIN	5 • 1				EG2F0589
	LLS	1				EG2FC59C
	TIX	ĒG2F+0585,1,1		-	•	EG2F0591
	LXD	CØMMØN+000,1	00	RESTØRE IRS	ana ny kaodim-paositra dia mpikampikampikampikampikampikampikampika	EG2F0592
	LXD	CØMMØN+001,2				EG2F0593
	LXD	CØMMØN+002,4				EG2FC594
	CLA	CØMMØN+007			-	EG2F0595
	HTR	0				EG2F0596
	CLA	1,4	•	SETTING FØR VECTØRS		EG2F0597
<ul> <li>an true schöft/minst famigten</li> </ul>	ARS	18		-		EG2F0598
	ADD	CØMMØN+003				EG2F0599
	STA	EG2F+0600	•			EG2E0600
	STA	EG2F+0603				EG2F0601
	LXA	-CØMMØN+003,3		SEI IDENTITY MATRIX		EG2E0602
	STZ	U;1	a a cara de la companya de la compa			
	IIX CL	EGZF+0600,1,1				E62FUCU4
		E62F+0704			NATION OF A DESCRIPTION OF	
	510	012 ECOELO/A2 2				EC2E0407
	-11X	$\frac{CO2CTAUDU212}{CO2CTUUDU212}$			named in a status to a supersystem on the constant dama is a status and they are a status and the supersystem of	EC2ECA08
		COZETO091 CC9EL0432				EC2ECACC
		2		SET MT TO VECTORS	nni an fartan ina faraha ni mana da na farana nga pana nan katana ana ana tana da katan ina ana ana ana tana da N	EG2E0610
		CANNANLAMA 2		JET HT FØ VEGTØRJ	•	EG2E0611
		COMPONIATIO	n, m., n <sub>h</sub> , y, n, m,			FG2F0612
		596690010000 EC2E+0520			· •	EG2E0612
	1 11 14		alan a shi shi Barran a shi shekara ta shi	111:	aan aan ah	aaa ah ah 2 ah 2 ah 2 ah 2 ah 2 ah 2 ah
4		• •		110		

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CAL.	0.1	UNDERFLØW	EG2F0614
ΔΝΔ	FG2F+0701		EG2E0615
STIR	EG2F+0702		EG2E0616
TDI	EC2E+3646		EC2E0617
	2	SING FOR UNDERFLOW	EC2E0619
		TECT EAD DEVIAILS AVEDELAW	 
SLI		IEST FOR PREVIOUS OVERFLOW	EGZEQCIS
JKA	E62F+0632		EGZEUCZU
P XD	3		EGZEGEZI
STD	EG2F+0627		EG2F0622
CLA	EG2F+0692 ·	SET ERRØR RETURN	EG2FC623
STØ	EG2F+0593		EG2F0624
SLF			EC2F0625
CLA	0,4	UNSCALE MATRIX	EG2F0626
FDH	COMMON+007		EG2FC627
STQ	0,4		EG2F0628
TNX	EG2F+0582,4,1		EG2F0629
ТХН	EG2E+0623.4		EG2F0630
Δ I Ω	C. 0 M. M. ØN+007		EG2F0631
E D H	CONNON+013 ·		EG2E0632
<u>101</u> 012	CANNAN+007		E62E0633
			EC2E0634
	E021 7:2010	Ο ΛΙΕ ΜΑΥΩΙΥ	EC2E0625
	FC 2F ( 07 C/	SUALE MATRIX	ECOLOGI
AUD	E62Ff0704		ECZEQCOC
510	COMMON+013		E02F0037
LDQ	COMMON+013		E62F0638
FMP	COMMON+007		EG2F0639
STØ	CBMMBN+007		EG2F064C
LDQ	0,2		EG2F0641
FMP	CØMMØN+013		EC2F0642
TØV	EG2F+0653	;	EG2FC643
S TØ	0,2		EG2F0644
TIX	EG2F+0638,2,1		EG2F0645
CLA	EG2F+0693		EG2F0646
STØ	EG2F+0593		EG2F0647
TRA	EG2F+0439		EG2F0648
SUB	EG2F+0703	FMP ØVERFLØW	EG2F0649
SLN	2		EG2FC65C
SIT	3		EG2F0651
TRA	FG2F+0632	SCALE -	EG2F0652
TRA	EG2E+0618	IINSCAL F	FG2FC653
	EC2E+0600	EAD ØVERELØW	EG2E0654
	$\frac{1}{1}$		EC2E0655
		CONTINC AVEDELAN	EC2E0656
		JUALING BVENTLOM	E02F0650
		COULDE DAAT	EC2E0459
5 X D		σησηκε κανι	
LXA			EGZEGCOS
STØ	LØMMØN+013		EGZEUCOL
ΑΝΑ	EG2F+0699		E62F0661
ARS	1		EG2F0662
ADD	COMMON+013		EG2F0663
ARS	1		EC2FC664
ADD	EG2F+0700		EG2F0665
STØ	C0MM0N+009		EG2F0666
· CLA	CØMMØN+013		EG2F0667
FDH	CØMMØN+009		EG2F0668
CLA	CØMMØN+009		EG2F0669
STO	CØMMEN+009		EG2FC670
FAD	CCMMON+089		EG2F0671
SHR	FG2F+0699		EG2F0672
	FG2F+0663+4+1		EG2F0673
	FG2F+0694-4		EG2E0674

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	The dama search of the		nagyang nanggung ang pang pang pang pang pang pang pan
	TRA	<u>1,4</u>	EG2F0675
	STØ	CEMMEN+013 MATRIX TRANSFØRMATIEN	EG2F0676
<ul> <li>A state of the second se</li></ul>	STQ	CONNON+U09	EG2F0671
	PMP cra		EG2F0678
	100	C & M & N + 013	EG2E0680
	FMP		EG2E0681
	FAD	COMMON+010	EG2F0682
	STØ	CØMMØN+010	EG2F0683
	LDQ	CØMMØN+009	EG2F0684
	FMP	<u>C@MV@N+012</u>	EG2F0685
	510		EG2F0686
( <u></u>	EMD	CAMMAN+011	EG2FUC8
	ESB		EG2F0080
	LDQ	CØMMØN+C10	EG2F0690
	TRA	1,4	EG2F0691
	TXL	EG2F+0530	EG2F0692
	TRA	5,4	EG2F0693
	SLT	2	EG2F0694
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		4,9 4.2000000 1000000.2220000000 22000000 10000000	E62F0696
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