

Limit cycles in digital filters : a bibliography, 1975-1984

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Limit Cycles in Digital Filters:
A bibliography 1975 - 1984

Compiled by
J.H.T. Geerlings

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Trefw.: digitale filters: bibliografieën.

Abstract

A bibliography of journal and conference papers and academic theses on nonlinear effects in digital filters, in particular, on limit cycles over the years 1975 to 1984 is given.
(242 references)

Geerlings, J.H.T.

LIMIT CYCLES IN DIGITAL FILTERS: A bibliography 1975-1984.
Department of Electrical Engineering, Eindhoven University
of Technology, The Netherlands, 1985.
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INTRODUCTION

This report contains results of a literature search on nonlinear effects in digital filters and, in particular, the phenomenon of limit cycles. The motivation of this search lies in a research project of the Group Electromagnetism and Circuit Theory of the Department of Electrical Engineering of the Eindhoven University of Technology. A survey of literature on this subject seemed desirable. Period since 1975 to 1984 was covered.

Following bibliographic instruments were used:

- Electrical and Electronics Abstracts 1975 - 1984, in some cases supplemented by Computer and Control Abstracts, both edited by INSPEC, Institution of Electrical Engineers, Hitchin, Herts., England.

The Subject Index was consulted under the following key words: - digital filters
- limit cycles
- wave recursive digital filters

Further selection was based on the given abstract and resulted in a provisional list of papers by various authors. To check, if these authors had written any other relevant paper, which was not mentioned under the consulted headings of the Subject Index, the Author Index was consulted.

- Science Citation Index 1982 - 1984, Institute of Scientific Information, Philadelphia, Pa., U.S.A.
This source of information proved less fruitful than the Electrical and Electronics Abstracts.

- Dissertation Abstracts International. Section B: Sciences and Engineering, Vol. 37(1976/77) - Vol. 45(1984/85).
Section C: European Abstracts, Vol. 37(1976/77)-Vol. 45(1984).
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The Subject Index was consulted under the headings: - digital
- filter
- filters

Finally, manuscript bibliographical lists by J.F. Kaiser (Bell Laboratories, Murray Hill, N.J.) on Limit Cycles (Febr. 1982) and by T.A.C.M. Claassen (Philips Research Laboratories, Eindhoven, The Netherlands) on Finite Wordlength Effects (April 1981) were used.

No special effort was done for books and patents. We relied on the experience that valuable books and patents would be mentioned among the references of papers and dissertations. Three patents were found in this way, Kao(1973), Kieburz and Mina(1975), Lawrence and Mitra(1980). No books dedicated to the subject of limit cycles were found.

The titles are presented in two sections:

- Journal and Conference Papers, Patents

Abbreviations of the journal titles are according to the INSPEC standard. IEEE stands for the Institute of Electrical and Electronics Engineers, New York, IEE for the Institution of Electrical Engineers, London, EEA for the Electrical and Electronics Abstracts, CCA for Computer and Control Abstracts. Code, e.g. EEA 79-26465, refers to Electrical and Electronics Abstracts, year 1979, abstract No. 26465.

- Ph.D. and M.Sc. Theses

DAI stands for the Dissertation Abstracts International, UMI for University Microfilms International. Code, e.g. DAI 38-6070-B, refers to the abstract of a dissertation in Vol. 38, page 6070 of the Section B (Sciences and Engineering); DAI 40-1353c refers to the abstract No. 1353 in the Vol. 40 of the Section C (European Abstracts).

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England

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