INDEX TO MATHEMATICS OF COMPUTATION, 1943–1969

Classification System by
Yudell L. Luke, Jet Wimp and Wyman Fair

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The INDEX TO MATHEMATICS OF COMPUTATION is a compilation, by author and by subject, of all material which has appeared in MATHEMATICS OF COMPUTATION and its predecessor, MATHEMATICAL TABLES AND OTHER AIDS TO COMPUTATION, during the years 1943–1969—twenty-three published volumes. The INDEX contains over 7,000 entries. This is an unusual compilation because of the unique character of the journal which not only publishes research papers, but also publishes reviews of material on mathematics of computation and a table errata section covering a number of other publications. In addition, an unpublished mathematical tables (UMT) file is maintained.

A new classification system, which was developed in 1969 by a committee chaired by Yudell Luke at the Midwest Research Institute, is used in the *subject classification index*. In this section, all articles, tables, reviews, etc. are classified. The classification scheme is designed as an indexing system for retrieval of information in MATHEMATICS OF COMPUTATION, and the present index contains classification numbers for all entries beginning with 1943.

The *author index* has been set up so that it gives bibliographical information on all of the items published in the journal. Information in this index includes title of article; translated title of books not in English, French, German, or Italian; title of book which is a collection of articles written by a number of authors; volume, year, and number of pages; publisher of a book; journal title of periodicals, information concerning translations; MATHEMATICAL REVIEWS numbers; subject classification. Items are listed alphabetically by author and chronologically under each author's entry. Each article is identified by both an ordering numeral and an identifying code in order that the reader may tell quickly whether the information listed concerns a primary research publication, a review of the work, errata to a table, or any of the other types of information covered by the journal. The following codes are used:

P = research paper	E = table errata
R = review of article or book	Q = queries and replies
T = table in UMT (unpublished mathematical table) file	M = microfiche

These identifying codes appear in the *subject classification index*, also, to refer the reader to the *author index*.

The identifying code appearing in both indexes provides a cross-reference system that enables the reader to retrieve information rapidly. For example, if the following entry appears in the *subject classification index*

3.10 Linear Equations
Smith, A. B. 1 PR, 3E

the reader knows immediately that under Smith's name in the *author index*, there will be listed both a research article on the subject of linear equations, written by Smith, and a review of the article. In addition, an errata to a table which Smith published in another journal will be listed.

The preparation and publication of the *subject classification index* was supported in part by a grant from the National Science Foundation (GN-691).

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