

Mathematical Reviews

Published by

American Mathematical Society

Editorial Committee

H. W. Engl, L. J. Fauci, J. I. Hall, Y. Ito, R. J. Stern, B. A. Taylor

Executive Editor
Administrative Editor
Editors

Editorial Consultants

J. E. Kister
N. J. Richert
W. D. Bouwsma, D. A. Carlson,
A. L. Dontchev, J. F. Epperson,
A. Greenspoon, A. Iacob, P. D. F. Ion
T. Józefiak, D. J. Kremer, V. V. Kurta,
R. Zaharopol, S. Zdravkovska, R. S. Zeitman
G. Y. Jiang, R. W. Keener,
R. A. Scott

Office Manager
Manager, Copy Editors
Editorial Associate
Production Manager
Manager, Reviewer Services
Manager, Bibliographic Services
Acquisitions Librarian
Manager, Systems

P. S. Ball
T. G. Bennett
B. D. Dudzik
S. K. Barth
L. M. Dann
B. TePaske-King
P. A. Shanks
D. R. Burton, Jr.

Editorial Office: MR is a publication of the American Mathematical Society; it is edited in the offices of the American Mathematical Society located in Ann Arbor, Michigan, with the cooperation of the University of Michigan. All editorial correspondence should be addressed to Mathematical Reviews, 416 Fourth Street, PO Box 8604, Ann Arbor, MI 48107-8604, USA; it may also be sent by e-mail to mathrev@ams.org or by FAX to (734) 996-2916. All other correspondence should be addressed to the American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294, USA. Orders should be addressed to the American Mathematical Society, PO Box 845904, Boston, MA 02284-5904, USA. *All orders must be accompanied by payment.*

Subscription information: The list price for a 2003 subscription to MR, including the annual index, is \$7,010 = \$6,509 (Database Fee) + \$501 (Product Delivery Fee for MR paper). For Institutional or Corporate Members it is \$5,708 = \$5,207 (Database Fee) + \$501 (Product Delivery Fee for MR paper). Sites which have paid the Database Fee can obtain additional subscriptions to MR for \$501 each. Individuals who are affiliated with a site which has paid the Database Fee can subscribe to MR for \$501. Subscribers to paper MR outside the United States and India must pay a postage surcharge of \$117. Subscribers to paper MR in India must pay a postage surcharge of \$153. Expedited delivery to

destinations in North America is \$138; elsewhere \$453.

Back volumes information: Back issues are available for all volumes of MR; price information can be obtained from the American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294, USA. Back volumes are also available in microform from ProQuest Information and Learning, 300 North Zeeb Road, Ann Arbor, MI 48106-1346, USA.

Cumulative indexes: There are sets of cumulative author and subject indexes that cover the entire span of MR from 1940–1984.

For additional subscription information and information about other products derived from the MR database, contact: Member and Customer Service, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294, USA; e-mail = cust-serv@ams.org; FAX = (401) 331-3842.

Mathematical Reviews (USPS 333-940) is published in monthly issues plus, in December, an annual author and subject index issue, by the American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294, USA. Periodicals postage paid at Providence, RI, and additional mailing offices. Postmaster: Send address changes to Mathematical Reviews, American Mathematical Society, 201 Charles Street, Providence, RI 02904-2294, USA.

PREFACE

This annual index of Mathematical Reviews (MR) is included with each subscription and is also available separately. It is also called Volume 35 of the Index of Mathematical Papers (IMP). Volumes 6–9 of IMP are the annual indexes of MR for the years 1974–77 and are available as a set. The 1978 annual index was the first to be included with each subscription. There are cumulative author indexes to MR that cover 1940–59 (Vols. 1–20), 1960–64 (Vols. 21–28) and 1965–72 (Vols. 29–44), subject indexes for 1940–58 (Vols. 1–19) and 1959–72 (Vols. 20–44), and author and subject indexes for 1973–79 (Vols. 45–58) and 1980–84.

The classification scheme used in the present index is the 2000 Mathematics Subject Classification (MSC2000). A copy of the MSC2000 is printed in the back of the subject portion of this index.

The entries in the author, key and subject indexes are comprised of all items reviewed in MR during a given year and some items which will not be reviewed by MR but which have appeared in Current Mathematical Publications (CMP). A star (★) preceding a title indicates a book or other item that is reviewed as a whole.

Author index; separate key index

The entries in the author and key indexes give full bibliographic information. These entries are accompanied by review numbers {if available} and classification numbers; secondary classification numbers are given in parentheses. Entries are listed alphabetically by author; entries having several authors are listed in full under each author. Surnames consisting of more than one part (e.g., de Carvalho, van den Berg) are listed under the first capital letter. Collections of papers, proceedings, bibliographies, tables, etc. that are edited rather than authored are listed in the key index by title and by location of the conference, workshop, etc., when applicable. For example, the publication entitled *Trends in approximation theory* is listed under **Trends in approximation theory** and under the location of the conference. Some monographic series (e.g., American Mathematical Society Translations, Series 2) have entries under the series title in this index.

Arrangement of entries in the author and key indexes

For a given heading (i.e., the preferred name of an author, or a title), full entries are listed in order of nominal publication dates; the cross-references are in MR number order after the full entries. The arrangement of each entry is the same as in the heading of its review in MR. The general form for entries is as follows:

Books, Monographs. (Coauthors {if necessary}) ★Title. (Language of original {if necessary}. Summary languages {if necessary}) [English translation of title or corrected title {if necessary}] Miscellaneous information {edition, editors, translators, series, etc.}. Publisher, city, date. Pagination. ISBN. (Reviewer's name) Review number {if available} Primary classification (Secondary classifications {if necessary}).

Journal article. (Coauthors {if necessary}) Title of article {in English translation if the original title is not in English, French or German}. (Language of original {if necessary}. Summary languages {if necessary}) [English translation of title or corrected title {if necessary}] Journal abbreviation {including series number if necessary} Volume number(volume number in first series {if given}) (nominal date), issue number {if necessary}, pagination (imprint date {if necessary}). (Reviewer's name) Review number {if available} Primary classification (Secondary classifications {if necessary}).

The first five digits of the review number of an item refer to the MR issue in which the review is published and the last five digits refer to its position within that issue. The first two digits after the colon are the general subject classification of the item.

Subject index

The entries in the subject index are arranged in classification order. For a given classification, all entries with that classification as a primary appear first, with authored entries appearing before unauthored entries. These are followed by entries with that classification as a secondary. Again, authored entries appear before unauthored entries. Each section under a given classification is arranged in alphabetical order. For each entry, the author(s), title, language, translated title {if necessary} and the review number {if available} appear at the first author only. The entries for subsequent authors are cross-references to the first author. Complete bibliographic information is available in the annual author and key indexes as well as in the MR review.

Cross-references

There are four kinds of cross-references in these indexes:

Name variations. An author's preferred name is the variation of the name that MR has chosen on the basis of frequency and currency of usage. Items by a given author are usually listed under the author's preferred name. In the author index, cross-references to the preferred form are given from sufficiently distinct alternative forms of the author's name.

Authors in other capacities. In the author index, the names of persons associated with an item in a capacity other than that of author (e.g., editor, translator, subject of a biography, etc.) are also listed. In the subject index, such names appear in parentheses. In both indexes these items occur only as cross-references to complete listings.

Key entries. Cross-references for such entries as bibliographies, obituaries and references to special events are made to the authors of the papers in which these items appear, e.g. **Biography: Whitehead, Alfred North see Grattan-Guinness, Ivor, 2003h:01022.**

Unreviewed entries. Some entries in these indexes have not been reviewed in MR (e.g., items that do not appear to be in final form, or that are at the fringes of MR's scope) although they have been listed in CMP. Unreviewed items appear in the author, key and subject indexes in a format similar to that of reviewed items. For unreviewed items that are part of a collection, the review number in parentheses is a cross-reference to the table-of-contents review, i.e. (see 2003x:xxxxx) or (2003x:xxxxx). For unreviewed items that are not part of a collection, there is no review number cross-reference.

Transliteration

Since 1983, MR has used the Cyrillic transliteration in use by ANSI, LC, Zbl, ISI, and others. This is also the system used throughout this index. A Cyrillic transliteration table appears at the end of the author/key index.

Names of Chinese authors

The name of a Chinese author appears in the index in Western form. For example, Gao Suo Gang will be listed as Gao, Suo Gang, as though the author's name were Suo Gang Gao. The pinyin transliteration is used for mainland Chinese authors and the Wade-Giles transliteration is used for Taiwanese authors.

In an undertaking of this size, errors are inevitable, despite elaborate precautions and checks. The editors of Mathematical Reviews would be very glad to have their attention drawn to errors in this index and also in the earlier indexes.