## JOURNALS PUBLISHED BY THE AMERICAN MATHEMATICAL SOCIETY

### **TRANSLATION JOURNALS**

Soviet Mathematics-Doklady is a bimonthly translation journal containing the entire pure mathematics section of the DOKLADY AKADEMII NAUK SSSR.

Mathematics of the USSR-Izvestija, a bimonthly journal is a cover-to-cover translation of IZVESTIJA AKADEMII NAUK SSSR SERIJA MATEMATIČESKAJA.

Mathematics of the USSR-Sbornik is a monthly journal and is a cover-to-cover translation of MATEMATICSKII SBORNIK (NOVAJA SERIJA).

Theory of Probability and Mathematical Statistics is the cover-to-cover translation into English of the TEORIJA VEROJATNOSTEI I MATEMATIČESKAJA STATISTIKA.

Vestnik of the Leningrad University (Mathematics) is the complete translation into English of the mathematics section of the VESTNIK LENINGRADSKOGO UNIVERSITETA.

Transactions of the Moscow Mathematical Society is a translation into English of TRUDY MOSKOVSKOGO MATEMATIČESKOGO OBŠČESTVA.

**Proceedings of the Steklov Institute of Mathematics** is a translation of the PROCEEDINGS OF THE STEKLOV INSTITUTE OF MATHEMATICS IN THE ACADEMY OF SCIENCES OF THE USSR.

### **RESEARCH JOURNALS**

Submission information for these journals is included in the May and September issues of this *Bulletin*.

Bulletin (New Series) of the American Mathematical Society. Contains Research-Expository Papers, Research Announcements and Reviews of Books on Advanced Mathematics.

Mathematics of Computation is a quarterly journal devoted to original papers in numerical analysis, the application of numerical methods and high-speed calculator devices, the computation of mathematical tables, the theory of high-speed calculating devices, and other aids to computation.

Memoirs of the American Mathematical Society is a bimonthly journal constituting a series of paperbound research tracts which are of the same general character as the papers published in the TRANSACTIONS.

**Proceedings of the American Mathematical Society** is a monthly journal devoted entirely to research in pure and applied mathematics, principally to the publication of original papers of moderate length. A department called Shorter Notes was established for the purpose of publishing very short papers of an unusually elegant and polished character for which there is normally no other outlet.

Transactions of the American Mathematical Society is a monthly journal devoted entirely to research in pure and applied mathematics and, in general, includes longer papers than those in the PROCEEDINGS.

# **OTHER JOURNALS**

Current Mathematical Publications, issued biweekly, contains a subject-classified index of papers and books being published currently in mathematics.

Mathematical Reviews is a monthly journal devoted to abstracts and reviews of the current mathematical literature of the world. Each volume consists of six regular issues plus an index issue. Abstracts and reviews are grouped under subject headings.

# BULLETIN (New Series) of the American Mathematical Society

#### EDITORIAL BOARD FOR RESEARCH-EXPOSITORY ARTICLES

Lipman Bers	John W. Milnor
Felix E. Browder,	Donald S. Ornstein
Chairman	Julia B. Robinson
Fredrick W. Gehring	James B. Serrin
Irving Kaplansky	Stephen Smale

#### EDITORIAL BOARD FOR RESEARCH ANNOUNCEMENTS

Irving Kaplansky	Cathleen S. Morawetz
Robert P. Langlands	David Mumford
Richard K. Lashof	Gian-Carlo Rota
Hugh P. McKean, Jr.	I. M. Singer, Chairman
Hugh L. Montgomery	Elias M. Stein
BOOK REVIEW EDITOR:	Meyer Jerison
MANAGING EDITOR:	I. M. Singer

### MANUSCRIPT, PROOF AND COPYING INFORMATION

#### SUBMISSION OF MANUSCRIPT

Articles submitted for publication should be typewritten and double spaced. The *Manual* for Authors, available from the Society, should be consulted for symbols and style conventions. Authors should take the greatest possible care in preparing the original manuscript. Hand drawn symbols are satisfactory, if clearly done; directions to the printer should be included where necessary on a separate sheet.

For Research-Expository Articles and Research Announcements, the first footnote should include *subject classification numbers* representing the primary and secondary subjects of the article. The 1980 Mathematics Subject Classification can be found in the December index volumes of Mathematical Reviews.

#### **COPYRIGHT TRANSFER AGREEMENT**

The signing of a Copyright Transfer Agreement is a requirement of publication in the BULLETIN. A copy of the agreement is sent to authors upon receipt of a manuscript in the Providence Office of the Society; in case of joint authors, copies are sent to the author who is designated to receive galley proof. Authors are urged to return the form immediately to prevent delays in processing and publishing of the manuscript. The 1978 edition of the *Manual for Authors* has a description of Society policy concerning copyright and a copy of the agreement.

#### PUBLICATION CHARGES

Research Announcements carry a page charge of \$40.00 per page to help defray the cost of publication. This amount is charged to the institution or to a contract supporting the research reported in the published paper. The publication charge policy of the United States Federal Council for Science and Technology (FCST) is reported on page 112 of the February, 1975 issue of the NOTICES of the American Mathematical Society. In no case is the author personally responsible for paying the page charge, nor is acceptance of the author's paper for publication dependent upon payment of the page charge.

#### **REPRINTS AND ADDRESS CHANGES**

Any inquiries concerning a paper which has been accepted for publication, including information regarding reprints or changes of address for mailing proof, should be sent directly to the Editorial Department, American Mathematical Society, P.O. Box 6248, Providence, Rhode Island 02940.

#### GALLEY PROOF

When a paper with more than one author has been accepted for publication, only one set of galley proof will be sent. Joint authors should, therefore, indicate which of them should receive galley proof in the event that the manuscript is accepted for publication.

#### COPYING AND REPRINTING

Individual readers of this publication, and nonprofit libraries acting for them are permitted to make fair use of the material, such as to copy an article for use in teaching or research. Permission is granted to quote brief passages from this publication in reviews provided the customary acknowledgement of the source is given.

Republication, systematic copying, or multiple reproduction of any material in this publication (including abstracts) is permitted only under license from the American Mathematical Society. Requests for such permission should be addressed to the Executive Director, American Mathematical Society, Box 6248, Providence, Rhode Island 02940.

The appearance of the code on the first page of an article in this journal indicates the copyright owner's consent for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law, provided that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (For details write CCC Operations Staff, P.O. Box 765, Schenectady, New York 12301).

# **RESEARCH – EXPOSITORY PAPERS**

## **RESEARCH ANNOUNCEMENTS**

Counterexamples to global Torelli for certain simply connected surfaces by Kenneth N. Chakiris	297
A characterization of hereditary rings of finite representation type by Piotr Dowbor and Daniel Simson	300
On Hurwitz' " $84(g - 1)$ theorem" and pseudofree actions by R. S. Kulkarni	303
Solomon's conjectures and the local functional equation for zeta functions of orders by Colin J. Bushnell and Irving Reiner	306
On simplicity of certain infinite dimensional Lie algebras by V. G. Kac	311
The cell-like mapping problem by George Kozlowski and John J. Walsh	315
On the union of sets of synthesis and Ditkin's condition in regular Banach algebras by Aharon Atzmon	317

# **BOOK REVIEWS**

Algebraic number theory by Robert L. Long A classical invitation to algebraic numbers and class fields by Harvey Cohn Number fields by Daniel A. Marcus-Reviewed by Harold Edwards	321
The computer revolution in philosophy: Philosophy, science and models of mind by Aaron Sloman–Reviewed by Douglas R. Hofstader	328
Interpolation theory, function spaces, differential operators by Hans Triebel-Reviewed by Ron DeVore	339
Mathematical methods of classical mechanics by V. I. Arnold A course in mathematical physics, Vol. 1: Classical dynamical systems by Walter Thirring-Reviewed by Ian N. Sneddon	346
Elliptic curves: Diophantine analysis by Serge Lang-Reviewed by Alan Baker	352
Introduction to mathematical economics by Murray C. Kemp and Yoshio Kimura– Reviewed by Louis J. Billera	355
Approximants de Padé by Jacek Gilewicz-Reviewed by William B. Jones	360
Barrelledness in topological and ordered vector spaces by T. Husain and S. M. Khaleelulla-Reviewed by I. Namioka	364
Monotone operators and applications in control and network theory by V. Dolezal- Reviewed by R. Saeks	369
Gaussian random processes by I. A. Ibragimov and Yu. A. Rozanov-Reviewed by R. M. Dudley	373
Foundations of mechanics by Ralph Abraham and Jerrold E. Marsden-Reviewed by Shlomo Sternberg	378
The theory of stochastic processes. Vols II, III by I. I. Gihman and A. V. Skorohod- Reviewed by Daniel W. Stroock	388