

Editorial Information

As of September 30, 1997, the backlog for this journal was approximately 1 issue. This estimate is the result of dividing the number of manuscripts for this journal in the Providence office that have not yet gone to the printer on the above date by the average number of articles per issue over the previous twelve months, reduced by the number of issues published in six months (the time necessary for editing and composing a typical issue).

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The first page must consist of a *descriptive title*, followed by an *abstract* that summarizes the article in language suitable for workers in the general field (algebra, analysis, etc.). The *descriptive title* should be short, but informative; useless or vague phrases such as “some remarks about” or “concerning” should be avoided. The *abstract* must be brief and reasonably self-contained. Included with the footnotes to the paper, there should be the 1991 *Mathematics Subject Classification* representing the primary and secondary subjects of the article. This may be followed by a list of *key words and phrases* describing the subject matter of the article and taken from it. A list of classifications may be found in the annual index of *Mathematical Reviews*, published with the December issue starting in 1990. Journal abbreviations used in bibliographies are also listed in the latest *Mathematical Reviews* annual index. The classifications and the journal abbreviations are accessible from e-MATH via the World Wide Web through the URL <http://www.ams.org/committee/publications/mr-info.html> or via FTP to <ftp.ams.org> (login as *anonymous* and enter username as password). The classifications are available as a browsable list and the journal abbreviations are available through a search tool. When the manuscript is submitted, authors should supply the editor with electronic addresses if available. These will be printed after the postal address at the end of each article.

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Authors may retrieve an author package from e-MATH via the World Wide Web through the URL <http://www.ams.org/tex/> or via FTP to <ftp.ams.org> (login as `anonymous` and enter username as password). The author package can also be obtained free of charge by sending e-mail to pub@ams.org (Internet) or from the Publication Division, American Mathematical Society, P.O. Box 6248, Providence, RI 02940-6248. When requesting an author package, please specify $\mathcal{A}\mathcal{M}\mathcal{S}$ - $\mathcal{L}\mathcal{A}\mathcal{T}\mathcal{E}\mathcal{X}$ or $\mathcal{A}\mathcal{M}\mathcal{S}$ - $\mathcal{T}\mathcal{E}\mathcal{X}$, Macintosh or IBM (3.5) format, and the publication in which your paper will appear. Please be sure to include your complete mailing address.

The final version of the electronic manuscript should be sent to the Providence office immediately after the paper has been accepted for publication. The author should also send the final version of the paper manuscript to the Managing Editor, who will forward a copy to the Providence office. Editors will require authors to send their electronically prepared manuscripts to the Providence office in a timely fashion. Electronically prepared manuscripts can be sent via e-mail to pub-submit@ams.org (Internet) or on diskette to the Electronic Prepress Department, American Mathematical Society, P.O. Box 6248, Providence, RI 02940-6248. When sending a manuscript electronically, please be sure to include a message indicating in which publication the paper has been accepted. No corrections will be accepted electronically. Authors must mark their changes on their proof copies and return them to the Providence office. Complete instructions on how to send files are included in the author package.

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If the graphics package used does not support EPS output, the graphics file should be saved in one of the standard graphics formats—such as TIFF, PICT, GIF, etc.—rather than in an application-dependent format. Graphics files sent in an application-dependent format are not likely to be used. No matter what method was used to produce the graphic, it is necessary to provide a paper copy to the AMS.

Authors using graphics packages for the creation of electronic art should also avoid the use of any lines thinner than 0.5 points in width. Many graphics packages allow the user to specify a “hairline” for a very thin line. Hairlines often look acceptable when proofed on a typical laser printer. However, when produced on a high-resolution laser imagesetter, hairlines become nearly invisible and will be lost entirely in the final printing process.

Screens should be set to values between 15% and 85%. Screens which fall outside of this range are too light or too dark to print correctly.

$\mathcal{T}\mathcal{E}\mathcal{X}$ files available. Beginning with the January 1992 issue of the *Bulletin* and the January 1996 issues of *Transactions*, *Proceedings*, *Mathematics of Computation*, and the *Journal of the AMS*, $\mathcal{T}\mathcal{E}\mathcal{X}$ files can be downloaded from e-MATH, starting from URL <http://www.ams.org/journals/>. Authors without Web access may request their files at the address given below after the article has been published. For *Bulletin* papers published in 1987 through 1991 and for *Transactions*, *Proceedings*, *Mathematics of Computation*, and the *Journal of the AMS* papers published in 1987 through 1995, $\mathcal{T}\mathcal{E}\mathcal{X}$ files are available upon request for authors without Web access by sending e-mail to file-request@ams.org or by contacting the Electronic Prepress Department, American Mathematical Society, P.O. Box 6248, Providence, RI 02940-6248. The request should include the title of the paper, the name(s) of the author(s), the name of the publication in which the paper has

or will appear, and the volume and issue numbers if known. The \TeX file will be sent to the author making the request after the article goes to the printer. If the requestor can receive Internet e-mail, please include the e-mail address to which the file should be sent. Otherwise please indicate a diskette format and postal address to which a disk should be mailed. **Note:** Because \TeX production at the AMS sometimes requires extra fonts and macros that are not yet publicly available, \TeX files cannot be guaranteed to run through the author's version of \TeX without errors. The AMS regrets that it cannot provide support to eliminate such errors in the author's \TeX environment.

Any inquiries concerning a paper that has been accepted for publication should be sent directly to the Electronic Prepress Department, American Mathematical Society, P.O. Box 6248, Providence, RI 02940-6248.

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Recently Published Titles from the AMS

Discovering Modern Set Theory. II: Lipa's Legacy

Winfried Just, *Ohio University, Athens*, and **Martin Weese**, *University of Potsdam, Germany*

This is the second volume of a two-volume graduate text in set theory. The first volume, *Discovering Modern Set Theory, I*, was addressed primarily to beginning graduate students. This second volume is intended as a bridge between introductory set theory courses and advanced monographs that cover selected branches of set theory, such as forcing or large cardinals. The authors give short but rigorous introductions to set-theoretic concepts and techniques such as trees, partition calculus, cardinal invariants of the continuum, Martin's Axiom, closed unbounded and stationary sets, the Diamond Principle (\diamond), and the use of elementary submodels. Great care has been taken to motivate the concepts and theorems presented.

Graduate Studies in Mathematics, Volume 18; 1997; 224 pages; Hardcover; ISBN 0-8218-0528-2; List \$36; All AMS members \$29; Order code GSM/18MC

Elliptic Boundary Value Problems in Domains with Point Singularities

V. A. Kozlov, *Sweden*, and **J. Rossmann**, *Rostock University, Germany*

This monograph systematically treats a theory of elliptic boundary value problems in domains without singularities and in domains with conical or cuspidal points. This exposition is self-contained and a priori requires only basic knowledge of functional analysis. Restricting to boundary value problems formed by differential operators and avoiding the use of pseudo-differential operators makes the book accessible for a wider readership.

Mathematical Surveys and Monographs, Volume 52; 1997; 414 pages; Hardcover; ISBN 0-8218-0754-4; List \$99; Individual member \$59; Order code SURV/52MC

Homeomorphisms in Analysis

Casper Goffman, *Purdue University, West Lafayette, IN*, **Togo Nishiura**, *Wayne State University, Detroit, MI*, and **Daniel Waterman**, *Syracuse University, NY*

... The book is well written, packed with information and makes a novel contribution to the literature. Much of what is in the book is important material that is now for the first time readily accessible ... readers will appreciate the many comments that provide historical or motivational perspectives ...

—Professor Andrew Bruckner, *University of California, Santa Barbara*

This book features the interplay of two main branches of mathematics: topology and real analysis. The material of the book is largely contained in the research publications of the authors and their students from the past 50 years.

Features:

- Contains new results and complete proofs of some known results for the first time.
- Demonstrates the wide applicability of certain basic notions and techniques in measure theory and set-theoretic topology.
- Gives unified treatments of large bodies of research found in the literature.

Mathematical Surveys and Monographs, Volume 54; 1997; 216 pages; Hardcover; ISBN 0-8218-0614-9; List \$69; Individual member \$41; Order code SURV/54MC

Lipa's Legacy

Józef Dozdziuk and **Linda Keen**, *City University of New York, New York City*, Editors

The mathematical works of Lars Ahlfors and Lipman Bers are fundamental and lasting. They have influenced and altered the development of twentieth century mathematics. The personalities of these two scientists helped create a mathematical family and have had a permanent positive effect on a whole generation of mathematicians. Their mathematical heritage continues to lead succeeding generations. In the fall of 1994, one year after Bers' death, some members of this family decided to inaugurate a series of conferences, *The Bers Colloquium*, to be held every three years. The theme was to be a topic in the Ahlfors-Bers mathematical tradition, broadly interpreted.

The first colloquium was held in October 1995 at the Graduate Center, CUNY in New York. It coincided roughly with the second anniversary of Bers' death. There were six lectures and much informal mathematical discussion. This volume contains papers by the speakers and many of the participants. The broad range of papers indicate how strong and far reaching Bers' influence has been.

Features:

- Twenty-seven very high-level papers on related topics
- Open problems
- Expository articles

Contemporary Mathematics, Volume 211; 1997; 488 pages; Softcover; ISBN 0-8218-0671-8; List \$71; Individual member \$43; Order code CONM/211MC

Optimization Methods in Partial Differential Equations

Steven Cox, *Rice University, Houston, TX*, and **Irena Lasiecka**, *University of Virginia, Charlottesville*, Editors

This book presents a collection of papers written by specialists in the field and devoted to the analysis of various aspects of optimization problems with a common focus on partial differential equation (PDE) models. These papers were presented at the AMS-SIAM 1996 Joint Summer Research Conference held at Mount Holyoke College, South Hadley, MA, in June 1996.

The papers selected for this volume are at the forefront of research and point to modern trends and open problems. This book will be a valuable tool not only to specialists in the field interested in technical details, but also to scientists entering the field who are searching for promising directions for research.

Contemporary Mathematics, Volume 209; 1997; 349 pages; Softcover; ISBN 0-8218-0604-1; List \$69; Individual member \$41; Order code CONM/209MC

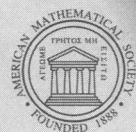
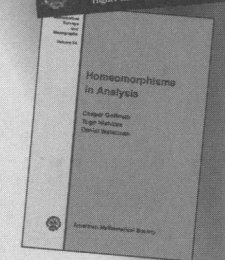
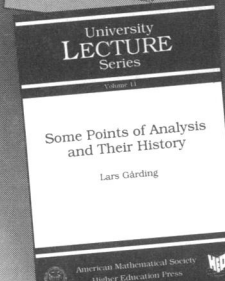
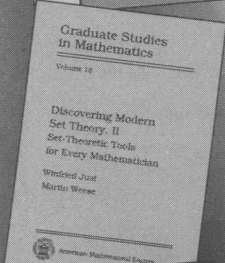
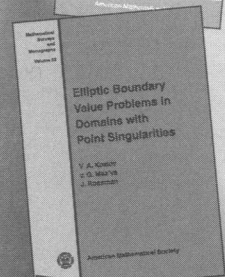
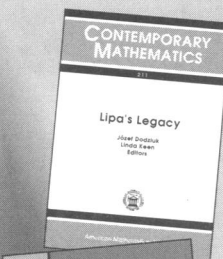
Some Points of Analysis and Their History

Lars Gårding, *Lund University, Sweden*

This book is a collection of small essays containing the history and the proofs of some important and interesting theorems of analysis and partial differential operators in this century. Most of the results in the book are associated with Swedish mathematicians. Also included are the Tarski-Seidenberg theorem and Wiener's classical results in harmonic analysis and a delightful essay on the impact of distributions in analysis. All mathematical points are fully explained, but some require a certain mature understanding from the reader. This book is a well-written, simple work that offers full mathematical treatment, along with insight and fresh points of view.

This book is co-published with Higher Education Press (Beijing) and is distributed worldwide, except in the People's Republic of China, by the American Mathematical Society.

University Lecture Series, Volume 11; 1997; 88 pages; Softcover; ISBN 0-8218-0757-9; List \$16; All AMS members \$13; Order code ULECT/11MC



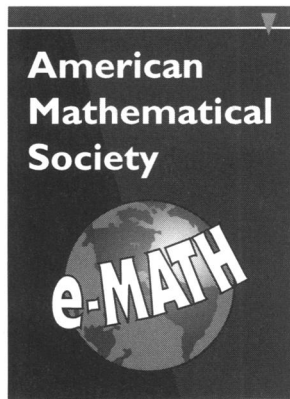
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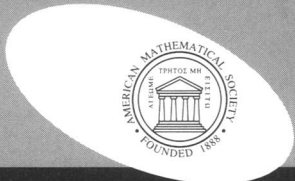
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