

PUBLICATIONS *of* CONTINUING INTEREST

In Praise of AMS Publications

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Mathematics: Frontiers and Perspectives

V. Arnold, *University of Paris IX, France, and Steklov Mathematical Institute, Moscow, Russia*, M. Atiyah, *University of Edinburgh, Scotland*, P. Lax, *New York University-Courant Institute of Mathematical Sciences, NY*, and B. Mazur, *Harvard University, Cambridge, MA*, Editors

This collection of essays will reward and stimulate anyone who dips into it. It belongs on every mathematician's bookshelf and in the mathematics collection of every library.

—MAA Monthly

2000; ISBN 0-8218-2070-2; 459 pages; Hardcover; Order Code MFPC110

Biography

Stephen Smale: The mathematician who broke the dimension barrier

Steve Batterson, *Emory University, Atlanta, GA*

Steve Batterson's book lays many legends to rest and verifies much chronology and many details ... This fascinating life story makes for compelling reading ... [Batterson] gets not just mathematical details but their relative importance right ... Waiting for history's verdict on Smale's numerical analysis, we might just as well curl up with Batterson's book ... this is a fascinating biography of a fascinating mathematician.

—SIAM Review

2000; ISBN 0-8218-2045-1; 306 pages; Hardcover; All AMS members \$28, List \$35, Order Code MBDBCT110

Recommended Text

Foliations I

Alberto Candel, *California Institute of Technology, Pasadena, CA*, and Lawrence Conlon, *Washington University, St. Louis, MO*

Overall presentation is first-rate ... diagrams ... are well-crafted and reflect the strongly 'graphical' nature of the subject ... A prospective reader who cares to invest the time needed to plough seriously through the book ought to be rewarded with a gratifying mathematical experience ... can also be recommended to more advanced researchers, who would enjoy seeing a compendium of major results.

—Bulletin of the London Mathematical Society

The authors pay great attention to examples, and you can find a large number of them in the book ... They are well-chosen and will keep the interest of the reader on a high level ... [The book is] a fundamental source for everybody with a serious interest in foliations.

—European Mathematical Society Newsletter

Graduate Studies in Mathematics, Volume 23; 2000; ISBN 0-8218-0809-5; 402 pages; Hardcover; All AMS members \$43, List \$54, Order Code GSM/23CT110

Supplementary Reading

Quantum Fields and Strings: A Course for Mathematicians

Pierre Deligne, *Institute for Advanced Study, Princeton, NJ*, Pavel Etingof, *Massachusetts Institute of Technology, Cambridge*, Daniel S. Freed, *University of Texas, Austin*, Lisa C. Jeffrey, *University of Toronto, ON, Canada*, David Kazhdan, *Harvard University, Cambridge, MA*, John W. Morgan, *Columbia University, New York, NY*, David R. Morrison, *Duke University, Durham, NC*, and Edward Witten, *Institute for Advanced Study, Princeton, NJ*, Editors

An immense amount of valuable material on recent developments. The development of classical supersymmetry by Deligne and collaborators is careful and systematic ... masterful treatment ... the book is a magnificent achievement.

—SIAM Review

A concise introduction to the quantum field theory and perturbative string theory, with as much emphasis on a mathematically satisfying exposition and clarity as possible ... will be helpful to all mathematicians and mathematical physicists who wish to learn about the beautiful subject of quantum field theory.

—European Mathematical Society Newsletter

Volume 1: 1999; ISBN 0-8218-1987-9; 723 pages; Hardcover; All AMS members \$32, List \$40, Order Code QFT/1CT110; Volume 2: 1999; ISBN 0-8218-1988-7; 778 pages; Hardcover; All AMS members \$32, List \$40, Order Code QFT/2CT110; Set: 1999; ISBN 0-8218-1198-3; 1501 pages; Hardcover; All AMS members \$60, List \$75, Order Code QFT/1/2CT110

Recommended Text

Plane Algebraic Curves

Gerd Fischer, *Heinrich-Heine-Universität, Düsseldorf, Germany*

From a review for the German Edition:

Compared to the many other textbooks on (plane) algebraic curves, the present new one comes closest in spirit and content, to the work of E. Brieskorn and H. Knoerr ... One could say that the book under review is a beautiful, creative and justifiable abridged version of this work, which also stresses the analytic-topological point of view ... the present book is a beautiful invitation to algebraic geometry...

—Zentralblatt für Mathematik

Student Mathematical Library, Volume 15; 2001; ISBN 0-8218-2122-9; 231 pages; Softcover; All AMS members \$28, List \$35, Order Code STML/15CT110

Recommended Text

Number Theory

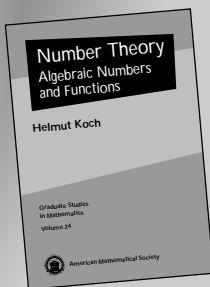
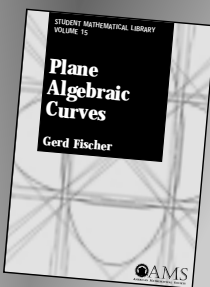
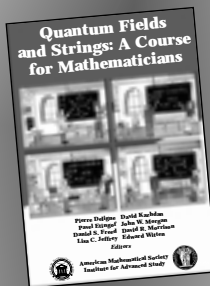
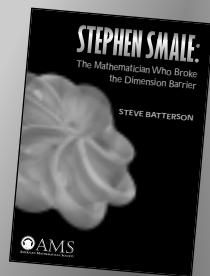
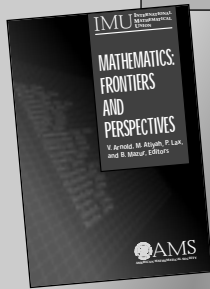
Algebraic Numbers and Functions

Helmut Koch, *Humboldt-University, Berlin, Germany*

A significant amount of the material goes beyond what one would expect from an introductory text ... this book can be recommended to students of number theory for its rigour and emphasis on theory.

—European Mathematical Society Newsletter

Graduate Studies in Mathematics, Volume 24; 2000; ISBN 0-8218-2054-0; 368 pages; Hardcover; All AMS members \$47, List \$59, Order Code GSM/24CT110



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