

PUBLICATIONS *of* CONTINUING INTEREST

In Praise of AMS Publications

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**New and Noteworthy**

**Mathematics: Frontiers and Perspectives**

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

*One hundred years ago, David Hilbert's famous list of 26 mathematical problems began to catalyze the collective efforts of the world's mathematicians toward a century's worth of new research and achievement. The International Mathematical Union commissioned the current volume to do the same for the century just beginning. Fully half the contributors here own a Fields Medal, mathematics' highest honor (and that does not even count Andrew Wiles). Obviously, simply by dint of the prestige and caliber of the authors, this volume deserves reader attention and a place on every library's shelves. The essays themselves vary from the entirely technical to the purely personal. The sort of reading encounter they offer can set the direction of a whole career, so the undergraduate who picks up this volume now may expect to return here many times in the years to come.*

—CHOICE

2000; ISBN 0-8218-2070-2; 459 pages; Hardcover; All AMS members \$39, List \$49, Order Code MFPCT011 2000; ISBN 0-8218-2697-2; 459 pages; Softcover; All AMS members \$31, List \$39, Order Code MFP.SCT011

**Price Reduced**

**Recommended Text**

**Mirror Symmetry and Algebraic Geometry**

David A. Cox, *Amherst College, MA*, and Sheldon Katz, *Oklahoma State University, Stillwater*

*Mathematicians wanting to get into the field will find it an essential book. They will find a very well written and encyclopaedic account of the mathematics which was needed in, and was developed from, what now might be termed classical mirror symmetry. We can be grateful to the authors for a book which not only summarizes current knowledge, but also points to the future.*

—Bulletin of the London Mathematical Society

Mathematical Surveys and Monographs, Volume 68; 1999; ISBN 0-8218-2127-X; 469 pages; Softcover; All AMS members \$39, List \$49, Order Code SURV/68.SCT011

**Extension Theory**

Hermann Grassmann

*Hermann Grassmann's Extension Theory (Ausdehnungslehre), first published in 1862, is a legendary book in the history of mathematics. This new book in the "Sources" subseries is a most*

*welcome addition to the AMS/LMS History of Mathematics series. A must-buy for those seriously interested in the history of mathematics.*

—MAA Online

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History of Mathematics, Volume 19; 2000; ISBN 0-8218-2031-1; 411 pages; Softcover; Individual member \$45, List \$75, Institutional member \$60, Order Code HMATH/19CT011

**The Book of Involutions**

Max-Albert Knus, *Eidgenössische Technische Hochschule, Zürich, Switzerland*, Alexander Merkurjev, *University of California, Los Angeles*, Markus Rost, *Universität Regensburg, Germany*, and Jean-Pierre Tignol, *Université Catholique de Louvain, Louvain-la-Neuve, Belgium*

*This volume is a compendious study of algebras with involution, a subject with many facets which becomes particularly interesting for central simple algebras. The book is excellently written, and the chapters on algebraic groups and Galois cohomology alone would make the book an ideal read for aspiring postgraduate students of an algebraic persuasion. In addition, there is plenty of material to enlighten even those of us who already know something about the subject. All in all, this book recommends itself to anyone who wants a thorough reference source, complete with an ample selection of enlightening exercises and historical notes, which deals with exceptional Jordan algebras, Clifford algebras and modules, Tits' algebras and algebraic groups in a modern manner.*

—Bulletin of the London Mathematical Society

Colloquium Publications, Volume 44; 1998; ISBN 0-8218-0904-0; 593 pages; Hardcover; All AMS members \$55, List \$69, Order Code COLL/44CT011

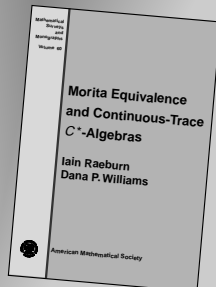
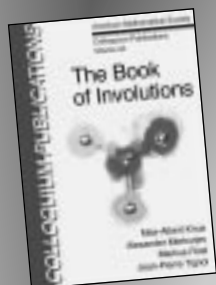
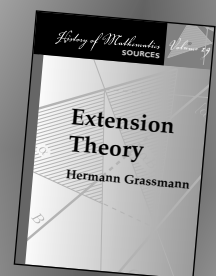
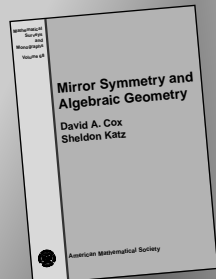
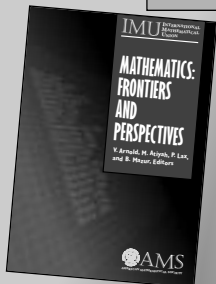
**Morita Equivalence and Continuous-Trace  $C^*$ -Algebras**

Iain Raeburn, *University of Newcastle, NSW, Australia*, and Dana P. Williams, *Dartmouth College, Hanover, NH*

*The exposition is stimulating and well written, and should be regarded as essential reading for any research student in  $C^*$ -algebras. Indeed, the book has a strong claim to be on the shelves of anybody, student or veteran, working in the subject.*

—Bulletin of the London Mathematical Society

Mathematical Surveys and Monographs, Volume 60; 1998; ISBN 0-8218-0860-5; 327 pages; Hardcover; Individual member \$39, List \$65, Institutional member \$52, Order Code SURV/60CT011



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