

PUBLICATIONS *of* CONTINUING INTEREST

Bestselling Titles in Algebraic Geometry and Applications

Recommended Text

Mirror Symmetry and Algebraic Geometry

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

Mathematical Surveys and Monographs, Volume 68; 1999; ISBN 0-8218-1059-6; 469 pages; Hardcover; All AMS members \$55, List \$69, Order Code SURV/68CT98

Random Matrices, Frobenius Eigenvalues, and Monodromy

Nicholas M. Katz and Peter Sarnak, *Princeton University, NJ*
Colloquium Publications, Volume 45; 1999; ISBN 0-8218-1017-0; 419 pages; Hardcover; Individual member \$41, List \$69, Institutional member \$55, Order Code COLL/45CT98

Recommended Text

Algebraic Curves and Riemann Surfaces

Rick Miranda, *Colorado State University, Ft. Collins*

Altogether, the present book is a masterly written, irresistible invitation to complex algebraic geometry and its generalization to the rich theory of algebraic schemes ...

—*Zentralblatt für Mathematik*

Contains an abundance of examples and problems and develops the basic notions ... thoroughly and carefully ... both beginners and experts as well will find a number of fascinating topics that do not normally appear in introductory texts.

—*Bulletin of the American Mathematical Society*

One of my students said that this is one of a very few books in algebraic geometry that he can read and understand. The price of the book is very affordable.

—*Pawel Gajer, Johns Hopkins University*

Graduate Studies in Mathematics, Volume 5; 1995; ISBN 0-8218-0268-2; 390 pages; Hardcover; All AMS members \$35, List \$44, Order Code GSM/5CT98

Mirror Symmetry I

Shing-Tung Yau, *Harvard University, Cambridge, MA*, Editor

From a review for the first edition ...

This volume is a requisite for those working in the area of CY 3-folds, as well as those interested in mathematical implications of contemporary physics.

—*Mathematical Reviews*

Titles in this series are co-published with International Press, Cambridge, MA.

AMS/IP Studies in Advanced Mathematics, Volume 9; 1998; ISBN 0-8218-0665-3; 444 pages; Hardcover; All AMS members \$39, List \$49, Order Code AMSIP/9CT98

Recommended Text

Mirror Symmetry II

B. Greene, *Cornell University, Ithaca, NY*, and S.-T. Yau, *Harvard University, Cambridge, MA*, Editors

Titles in this series are co-published with International Press, Cambridge, MA.

AMS/IP Studies in Advanced Mathematics, Volume 1; 1996; ISBN 0-8218-0634-3; 844 pages; Hardcover; Individual member \$51, List \$85, Institutional member \$68, Order Code AMSIP/1CT98

Mirror Symmetry III

Duong H. Phong, *Columbia University, New York*, Luc Vinet, *University of Montreal, PQ, Canada*, and Shing-Tung Yau, *Harvard University, Cambridge, MA*, Editors

This book is co-published by the AMS, International Press, and Centre de Recherches Mathématiques.

AMS/IP Studies in Advanced Mathematics, Volume 10; 1999; ISBN 0-8218-1193-2; 312 pages; Hardcover; All AMS members \$34, List \$42, Order Code AMSIP/10CT98

Supplementary Reading

Elliptic Functions and Elliptic Integrals

Viktor Prasolov, *Independent University of Moscow, Russia*, and Yuri Solov'ev, *Moscow State University, Russia*

A wonderful choice of topics, delivered in a concrete and lively style ... provide a lively introduction to many classical topics that lie at the foundations of contemporary algebra, number theory and algebraic geometry.

—*Mathematical Reviews*

Translations of Mathematical Monographs, Volume 170; 1997; ISBN 0-8218-0587-8; 185 pages; Hardcover; Individual member \$47, List \$79, Institutional member \$63, Order Code MMONO/170CT98

Recommended Text

Gröbner Bases and Convex Polytopes

Bernd Sturmfels, *University of California, Berkeley*

This book is a state-of-the-art account of the rich interplay between combinatorics and geometry of convex polytopes and computational commutative algebra via the tool of Gröbner bases.

—*Optima*

Not only of interest for mathematicians studying Gröbner bases, but also for researchers working on the mathematical aspects of integer programming and computational statistics.

—*Newsletter on Computational and Applied Mathematics*

Thanks to the author's ingenious writing, most of the material should be accessible to first-year graduate students in mathematics ... will be a landmark for further study of Gröbner bases in new branches of mathematics. It underlines the powerful techniques of commutative algebra in the interplay with combinatorics and polyhedral geometry.

—*Mathematical Reviews*

The exposition is clear and very well motivated ... The reader will be amply rewarded, as this is an elegantly written work of wide scholarship.

—*Bulletin of the London Mathematical Society*

University Lecture Series, Volume 8; 1996; ISBN 0-8218-0487-1; 162 pages; Softcover; All AMS members \$23, List \$29, Order Code ULECT/8CT98

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