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**Geometric Nonlinear Functional Analysis
Volume I**

Yoav Benyamini, Technion—Israel Institute of Technology, Haifa, and Joram Lindenstrauss, Hebrew University, Jerusalem, Israel

Volume 48; 2000; ISBN 0-8218-0835-4; 488 pages; Hardcover; All AMS members \$52, List \$65, Order Code COLL/48CT102

Recommended Text

Frobenius Manifolds, Quantum Cohomology, and Moduli Spaces

Yuri I. Manin, Director, Max-Planck-Institut für Mathematik, Bonn, Germany

The book is certainly one which should be in every mathematical library. I would also recommend it to any mathematician (from graduate student to professor) interested in trying to learn about these important and fascinating subjects.

—Bulletin of the London Mathematical Society

Volume 47; 1999; ISBN 0-8218-1917-8; 303 pages; Hardcover; All AMS members \$44, List \$55, Order Code COLL/47CT102

Global Solutions of Nonlinear Schrödinger Equations

J. Bourgain, Institute for Advanced Study, Princeton, NJ

Volume 46; 1999; ISBN 0-8218-1919-4; 182 pages; Hardcover; Individual member \$21, List \$35, Institutional member \$28, Order Code COLL/46CT102

Random Matrices, Frobenius Eigenvalues, and Monodromy

Nicholas M. Katz and Peter Sarnak, Princeton University, NJ

[F]or research workers interested in the Riemann Hypothesis, or in the arithmetic of varieties over finite fields, this work has important messages which may help to shape our thinking on fundamental issues on the nature of zeta-functions.

—Bulletin of the London Mathematical Society

Volume 45; 1999; ISBN 0-8218-1017-0; 419 pages; Hardcover; Individual member \$41, List \$69, Institutional member \$55, Order Code COLL/45CT102

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

The book under review is an important work which records many of the significant advances in the theory of algebras with involution that have taken place in recent years. Much of the material has not previously appeared in a book before; indeed, there is a substantial amount that has not appeared anywhere before. There is an interesting selection of exercises for each chapter which cover many ancillary results not included in the body of the text. Additionally, there are carefully prepared and highly informative notes at the end of each chapter which give historical commentary and sources for the topics covered. Overall, this book is an outstanding achievement. It will be an indispensable reference for the specialist, and a challenging but highly rewarding introduction for the novice.

—Mathematical Reviews

Volume 44; 1998; ISBN 0-8218-0904-0; 593 pages; Hardcover; All AMS members \$55, List \$69, Order Code COLL/44CT102

Fully Nonlinear Elliptic Equations

Luis A. Caffarelli and Xavier Cabré, Institute for Advanced Study, Princeton, NJ

The book marks an important stage in the theory of nonlinear elliptic problems. Its timely appearance will surely stimulate fresh attacks on the many difficult and interesting questions which remain.

—Bulletin of the London Mathematical Society

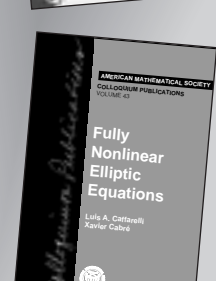
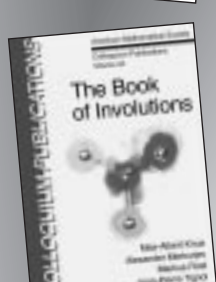
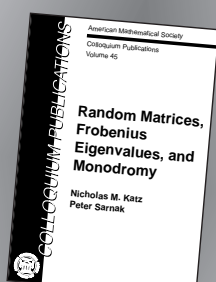
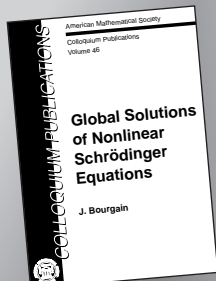
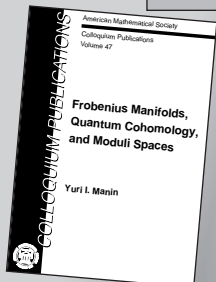
Interesting and well written ... contains material selected with good taste ... likely to be highly appreciated both by researchers and advanced students.

—Mathematical Reviews

Well written, with the arguments clearly presented. There are helpful remarks throughout the book, and at several points the authors give the main ideas of the more technical proofs before proceeding to the details ... will certainly be of interest to researchers and graduate students in the field of nonlinear elliptic equations.

—Bulletin of the American Mathematical Society

Volume 43; 1995; ISBN 0-8218-0437-5; 104 pages; Softcover; All AMS members \$23, List \$29, Order Code COLL/43CT102



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