

New and Noteworthy from Springer

Quadratic Diophantine Equations

T. **Andreescu**, University of Texas at Dallas, Richardson, TX, USA; D. **Andrica**, University Cluj-Napoca, Romania

This text treats the classical theory of quadratic diophantine equations and guides readers through the last two decades of computational techniques and progress in the area. The presentation features two basic methods to investigate and motivate the study of quadratic diophantine equations: the theories of continued fractions and quadratic fields. It also discusses Pell's equation.

2009. Approx. 250 p. 20 illus. (Springer Monographs in Mathematics) Softcover
ISBN 978-0-387-35156-8

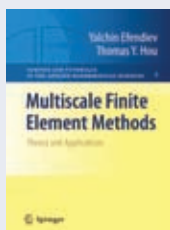
► **approx. \$59.95**

Introduction to Siegel Modular Forms and Dirichlet Series

A. **Andrianov**, Russian Academy of the Sciences, Petersburg Department of the Steklov Institute of Mathematics, St. Petersburg, Russia

This is intended for a graduate course on Siegel modular forms, Hecke operators, and related zeta functions. The author's aim is to present a concise and self-contained introduction to a developing area of number theory that will serve to attract young researchers to this field.

2009. XII, 184 p. (Universitext) Softcover
ISBN 978-0-387-78752-7 ► **\$59.95**



Multiscale Finite Element Methods Theory and Applications

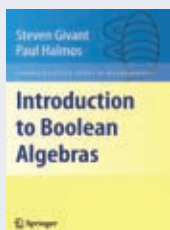
Y. **Efendiev**, Texas A & M University,

College Station, Texas, USA; T. Y. **Hou**, California Institute of Technology, Pasadena, CA, USA

This text on the main concepts and recent advances in multiscale finite element methods is written for a broad audience. Each chapter contains a simple introduction, a description of proposed methods, and numerical examples of those methods.

2009. X, 234 p. (Surveys and Tutorials in the Applied Mathematical Sciences) Softcover

ISBN: 978-0-387-09495-3 ► **\$44.95**



Introduction to Boolean Algebras

S. **Givant**, Mills College, Oakland, CA, USA; P. **Halmos**, deceased

This book is an informal though systematic series of lectures on Boolean algebras. It contains background chapters on topology and continuous functions and includes hundreds of exercises as well as a solutions manual.

2009. XIV, 574 p. 10 illus. (Undergraduate Texts in Mathematics) Hardcover
ISBN 978-0-387-40293-2 ► **\$59.95**



Principles of Harmonic Analysis

A. **Deitmar**, University of Tübingen, Germany;
S. **Echterhoff**, University of

Münster, Germany

This gently-paced book includes a full proof of Pontryagin Duality and the Plancherel Theorem. The authors emphasize Banach algebras as the cleanest way to get many fundamental results in harmonic analysis.

2009. Approx. 345 p. (Universitext) Softcover

ISBN 978-0-387-85468-7 ► **\$49.95**



Solving the Pell Equation

M. J. **Jacobson, Jr.**,
H. C. **Williams**,
University of Calgary, AB,
Canada

The authors provide a friendly introduction to algebraic number theory via Pell's Equation. The only prerequisites are knowledge of elementary number theory and abstract algebra.

2009. Approx. 520 p. 20 illus. (CMS Books in Mathematics) Hardcover
ISBN 978-0-387-84922-5 ► **\$79.95**

Learn about our eBook Collection in Mathematics and Statistics. Talk to your Librarian Today

Easy Ways to Order for the Americas ► **Write:** Springer Order Department, PO Box 2485, Secaucus, NJ 07096-2485, USA
► **Call: (toll free)** 1-800-SPRINGER ► **Fax:** 1-201-348-4505 ► **Email:** orders-ny@springer.com or for outside the Americas
► **Write:** Springer Customer Service Center GmbH, Haberstrasse 7, 69126 Heidelberg, Germany ► **Call:** +49 (0) 6221-345-4301
► **Fax:** +49 (0) 6221-345-4229 ► **Email:** orders-hd-individuals@springer.com ► Prices are subject to change without notice.
All prices are net prices.

014032x

