

2012: THE YEAR IN BOOKS

A SAMPLING OF NOTABLE AMS TITLES PUBLISHED OVER THE LAST YEAR

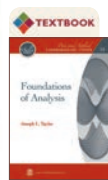


ALGEBRAIC GEOMETRY A PROBLEM SOLVING APPROACH

Thomas Garrity, Richard Belshoff, Lynette Boos, Ryan Brown, Carl Lienert, David Murphy, Junalyn Navarra-Madsen, Pedro Poitevin, Shawn Robinson, Brian Snyder, and Caryn Werner

A problem-driven introduction to algebraic geometry that requires its readers to think through the mathematics, allowing for greater comprehension.

Student Mathematical Library, Volume 66; 2013; 335 pages; Softcover; ISBN: 978-0-8218-9396-8; List US\$53; AMS members US\$42.40; Order code STML/66



FOUNDATIONS OF ANALYSIS

Joseph L. Taylor, University of Utah, Salt Lake City, UT

"...The book is well-written, clear, and concise, and supplies the students with very good introductory discussions of the various topics, correct and well-thought-out proofs, and appropriate, helpful examples."

—Robert Brooks, University of Utah

Pure and Applied Undergraduate Texts, Volume 18; 2012; 398 pages; Hardcover; ISBN: 978-0-8218-8984-8; List US\$74; AMS members US\$59.20; Order code AMSTEXT/18



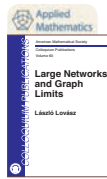
SEMICLASSICAL ANALYSIS

Maciej Zworski, University of California, Berkeley, CA

"This book is an excellent, comprehensive introduction to semiclassical analysis. I believe it will become a standard reference for the subject."

—Alejandro Uribe, University of Michigan

Graduate Studies in Mathematics, Volume 138; 2012; 431 pages; Hardcover; ISBN: 978-0-8218-8320-4; List US\$75; AMS members US\$60; Order code GSM/138



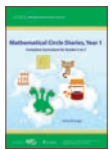
LARGE NETWORKS AND GRAPH LIMITS

László Lovász, Eötvös Loránd University, Budapest, Hungary

"This is an amazing book: readable, deep, and lively. It sets out this emerging area, makes connections between old classical graph theory and graph limits, and charts the course of the future."

—Persi Diaconis, Stanford University

Colloquium Publications, Volume 60; 2012; 475 pages; Hardcover; ISBN: 978-0-8218-9085-1; List US\$99; AMS members US\$79.20; Order code COLL/60



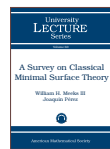
MATHEMATICAL CIRCLE DIARIES, YEAR 1 COMPLETE CURRICULUM FOR GRADES 5 TO 7

Anna Burago, Prime Factor Math Circle, Seattle, WA

This book contains everything that is needed to run a successful yearlong mathematical circle for students in grades 5 to 7: detailed lectures and discussions, sets of problems with solutions, contests and games, and valuable know-how on the running of a circle.

Titles in this series are co-published with the Mathematical Sciences Research Institute (MSRI).

MSRI Mathematical Circles Library, Volume 11; 2012; 335 pages; Softcover; ISBN: 978-0-8218-8745-5; List US\$45; AMS members US\$36; Order code MCL/11

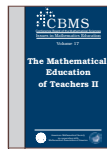


A SURVEY ON CLASSICAL MINIMAL SURFACE THEORY

William H. Meeks III, University of Massachusetts, Amherst, MA, and Joaquín Pérez, Universidad de Granada, Spain

A survey of recent spectacular successes in classical minimal surface theory.

University Lecture Series, Volume 60; 2012; 182 pages; Softcover; ISBN: 978-0-8218-6912-3; List US\$48; AMS members US\$38.40; Order code ULECT/60



THE MATHEMATICAL EDUCATION OF TEACHERS II

Taking full consideration of the Common Core State Standards for mathematics, this book is an important guide to the mathematics and statistics that school teachers should know and how they should come to know that mathematics.

This series is published in cooperation with the Mathematical Association of America.

CBMS Issues in Mathematics Education, Volume 17; 2012; 86 pages; Softcover; ISBN: 978-0-8218-6926-0; List US\$33; AMS members US\$26.40; Order code CBMATH/17



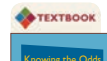
NUMBERS AND FUNCTIONS

FROM A CLASSICAL-EXPERIMENTAL MATHEMATICIAN'S POINT OF VIEW

Victor H. Moll, Tulane University, New Orleans, LA

An exploration of the connections between elementary functions and topics in number theory and combinatorics, from the viewpoint of experimental mathematics.

Student Mathematical Library, Volume 65; 2012; 504 pages; Softcover; ISBN: 978-0-8218-8795-0; List US\$58; AMS members US\$46.40; Order code STML/65



KNOWING THE ODDS

AN INTRODUCTION TO PROBABILITY

John B. Walsh, University of British Columbia, Vancouver, BC, Canada

"John Walsh, one of the great masters of the subject, has written a superb book on probability ... I regret his book was not available when I taught such a course myself."

—Ioannis Karatzas, Columbia University

Graduate Studies in Mathematics, Volume 139; 2012; 421 pages; Hardcover; ISBN: 978-0-8218-8532-1; List US\$75; AMS members US\$60; Order code GSM/139

