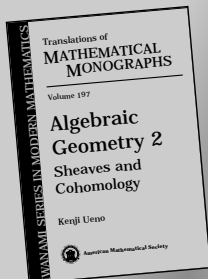# PUBLICATIONS *of* CONTINUING INTEREST

2001: Year in Review

Below is a selection of top titles published by the AMS in 2001. Included are books of historical interest, research monographs, translated volumes, classic works, and course texts. All have something vital to offer to any mathematical books collection. To learn more about these and many more AMS titles, go to **www.ams.org/bookstore.**
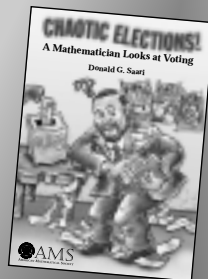
Algebraic Geometry 2
Sheaves and Cohomology
Kenji Ueno, *Kyoto University, Japan*

Overall, this book is an excellent instructional exposition for an introduction to algebraic geometry.
—*Mathematical Reviews*

Translations of Mathematical Monographs (*Iwanami Series in Modern Mathematics*), Volume 197; 2001; ISBN 0-8218-1357-9; 184 pages; Softcover; **All AMS members $23**, List $29, Order Code MMONO/197CT201

Chaotic Elections! A Mathematician Looks at Voting
Donald G. Saari, *University of California, Irvine*

Written with flair and imagination, making it entertaining and interesting to read … Saari has written an original, topical, and enjoyable book combining thoughtful social commentary with interesting and accessible mathematics.
—*MAA Online*

2001; ISBN 0-8218-2847-9; 159 pages; Softcover; **All AMS members $18**, List $23, Order Code ELECTCT201

Function Theory of One Complex Variable
Second Edition
Robert E. Greene, *University of California, Los Angeles*, and **Steven G. Krantz**, *Washington University, St. Louis, MO*

From a review of the First Edition:

The authors have produced a modern, quality work that could serve as an excellent model for writing and teaching graduate texts … it will occupy a distinguished place in the extensive literature on the subject.
—*Mathematical Reviews*

Graduate Studies in Mathematics, Volume 40; 2002; ISBN 0-8218-2905-X; approximately 561 pages; Hardcover; **All AMS members $55**, List $69, Order Code GSM/40CT201

Recommended Text
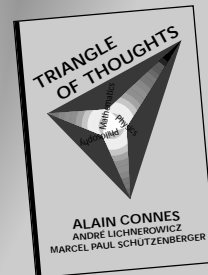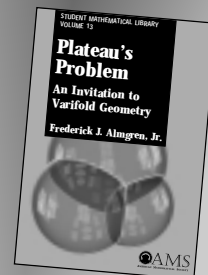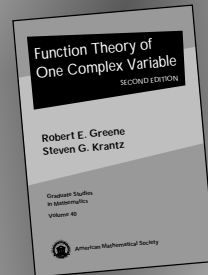
Geometry of Manifolds
Richard L. Bishop, *University of Illinois, Urbana*, and **Richard J. Crittenden**

From a review for the First Edition:

The style is elegant and at the same time considerate for the needs of a beginner … anybody who chooses to base his course on differential geometry at the graduate level on this book could do no better.
—*Mathematical Reviews*

AMS Chelsea Publishing; 2001; ISBN 0-8218-2923-8; 273 pages; Hardcover; **All AMS members $35**, List $39, Order Code CHEL/344.HCT201

Lyapunov Exponents and Smooth Ergodic Theory
Luis Barreira, *Instituto Superior Técnico, Lisbon, Portugal*, and **Yakov B. Pesin**, *Pennsylvania State University, University Park*

University Lecture Series, Volume 23; 2002; ISBN 0-8218-2921-1; 151 pages; Softcover; **All AMS members $23**, List $29, Order Code ULECT/23CT201

A Modern Theory of Integration
Robert G. Bartle, *Eastern Michigan University, Ypsilanti, and University of Illinois, Urbana*

Graduate Studies in Mathematics, Volume 32; 2001; ISBN 0-8218-0845-1; 458 pages; Hardcover; **All AMS members $47**, List $59, Order Code GSM/32CT201

Plateau's Problem
An Invitation to Varifold Geometry
Frederick J. Almgren, Jr.

Student Mathematical Library, Volume 13; 2001; ISBN 0-8218-2747-2; approximately 88 pages; Softcover; **All AMS members $15**, List $19, Order Code STML/13CT201

Probability Theory
S. R. S. Varadhan, *New York University - Courant Institute of Mathematical Sciences*

Courant Lecture Notes, Volume 7; 2001; ISBN 0-8218-2852-5; 167 pages; Softcover; **All AMS members $19**, List $24, Order Code CLN/7CT201

A Tour of Subriemannian Geometries, Their Geodesics and Applications
Richard Montgomery, *University of California, Santa Cruz*

Mathematical Surveys and Monographs, Volume 91; 2002; ISBN 0-8218-1391-9; 259 pages; Hardcover; **Individual member $41**, List $69, Institutional member $55, Order Code SURV/91CT201

Recommended Text

Triangle of Thoughts
Alain Connes, **André Lichnerowicz**, and **Marcel Paul Schützenberger**

2001; ISBN 0-8218-2614-X; 179 pages; Hardcover; **All AMS members $24**, List $30, Order Code TOTCT201

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