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Bestsellers in Mathematics 1997

by **Françoise Crowell** (Bibliographer, YBP)

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The third in our list of "Bestsellers," after Physics and Chemistry, is Mathematics, one more area where many libraries cannot count on having strong subject expertise on staff. These fifty Mathematics titles, all treated on Yankee Book Peddler's approval plan program during calendar year 1997, have been purchased by libraries through their approval plan and firm orders more often than all other Mathematics titles for the year. Only sixteen publishers are represented on the list and two-thirds of the fifty titles were brought out by just four publishers: **Wiley** and **Oxford** (both with nine), **Cambridge** (with eight), and **Springer-Verlag** (with six). Among the also-rans were **AK Peters** (with two), a small publisher who enjoys a fine reputation in Mathematics, as well as the **American Mathematical Society** and the **Mathematical Association of America** (each with one), suggesting that in a specialized subject area such as this, the publishers to watch are the very large and the very small. Most will not enter the game in the first place, in a contest where 108 copies sold to date leads the list and makes for a runaway YBP Mathematics bestseller: Oxford's *Number Sense: How the Mind Creates Mathematics*. Bringing up the rear, at 48 copies, is *Monte Carlo Simulation*, from Sage. We hope, as with the earlier lists, that libraries find this one useful in evaluating their own holdings.

Singer, Ivan. *Abstract Convex Analysis*. John Wiley. 1997. 0471160156 Cloth \$79.95

Jonckheere, Edmond A., 1954- *Algebraic And Differential Topology of Robust Stability*. Oxford Univ Press. 1997. 0195093011 Cloth \$65.00

Shafer, Glenn, 1946- *Art Of Casual Conjecture*. MIT Press. 1996. 026219368x Cloth \$50.00

Smithies, F. (Frank), 1912- *Cauchy And The Creation Of Complex Function Theory*. Cambridge Univ Press. 1997. 052159278x Cloth \$59.95

Weaver, Jefferson Hane. *Conquering Statistics: Numbers Without The Crunch*. Plenum 1997. 0306455722 Cloth \$26.95

Johnson, Norman Lloyd. *Discrete Multivariate Distributions*. John Wiley 1997. 0471128449 Cloth \$79.95

Frederickson, Greg N. (Greg Norman), 1947- *Dissections: Plane & Fancy*. Cambridge Univ Press 1997. 0521571979 Cloth \$34.95

McKean, Henry P. *Elliptic Curves: Function Theory, Geometry, Arithmetic*. Cambridge Univ Press 1997. 0521582288 Cloth \$59.95

Ogden, R. Todd, 1965- *Essential Wavelets For Statistical Applications And Data Analysis*. Birkhauser 1997. 0817638644. Cloth \$40.00

Singh, Simon. *Fermat's Enigma: The Epic Quest To Solve The World's Greatest Mathematical Problem*. Walker 1997. 0802713319. Cloth \$23.00

Greene, Robert Everist, 1943- *Function Theory Of One Complex Variable*. John Wiley 1997. 0471804681. Cloth \$69.95

Ramsay, J. O. (James O.). *Functional Data Analysis*. Springer-Verlag 1997. 0387949569. Cloth \$49.95

Kass, Robert E. *Geometrical Foundations of Asymptotic Inference*. John Wiley 1997. 0471826685. Cloth \$74.95

Shurman, Jerry Michael. *Geometry of the Quintic*. John Wiley 1997. 0471130176. Paper \$39.95

Graph Connections: Relationships Between Graph Theory and Other Areas of Mathematics; Ed. by Lowell W. Beineke. Clarendon/Oxford 1997.

0198514972. Cloth \$65.00

Zwillinger, Daniel, 1957- *Handbook of Differential Equations*. Academic 1998. 0127843965. Cloth \$69.95

Sheshkin, David. *Handbook of Parametric and Nonparametric Statistical Procedures*. CRC Press 1997. 0849331196. Cloth \$79.95

Rota, Gian-Carlo, 1932- *Indiscrete Thoughts*; Ed. by Fabrizio Palombi. Birkhauser 1997. 0817638660. Cloth \$36.50

Roman, Steven. *Introduction to Coding and Information Theory*. Springer-Verlag 1997. 0387947043. Cloth \$39.95

Tanaka, Kazuo, 1962- *Introduction to Fuzzy Logic for Practical Applications*. Springer-Verlag 1997. 0387948074. Paper \$34.95

Peterson, Ivars. *Jungles of Randomness: A Mathematical Safari*. John Wiley 1998. 0471164496. Cloth \$24.95

Leading Personalities in Statistical Sciences: From the Seventeenth Century to the Present; Ed. by N.L. Johnson. John Wiley 1997. 0471163813. Paper \$49.95

Dawson, John W. (John William), 1944- *Logical Dilemmas: The Life and Work of Kurt Godel*. AK Peters 1997. 1568810253. Cloth \$49.95

Wang, Hao, 1921- *Logical Journey: From Godel to Philosophy*. MIT Press 1996. 0262231891. Cloth \$40.00

Davis, Philip J., 1923- *Mathematical Encounters of the Second Kind*. Birkhauser 1997. 081763939x. Cloth \$24.95

Gardiner, A. (Anthony), 1947- *Mathematical Olympiad Handbook: An Introduction to Problem Solving Based on the First 32 British Mathematical Olympiads, 1965-1966*. Oxford Univ Press 1997. 0198501056. Paper \$27.95

Luo, Zhi Quan. *Mathematical Programs with Equilibrium Constraints*. Cambridge Univ Press 1996. 0521572908. Cloth \$54.95

Hilton, Peter John. *Mathematical Reflections: In a Room with Many Mirrors*. Springer-Verlag 1997. 0387947701. Cloth \$37.95

Resnik, Michael D. *Mathematics as a Science of Patterns*. Clarendon/Oxford 1997. 0198236085. Cloth \$45.00

Gulleberg, Jan. *Mathematics from the Birth of Numbers*. W. W. Norton 1997. 039304002X. Cloth \$50.00

Gnanadesikan, Ramanathan, 1932- *Methods for Statistical Data Analysis of Multivariate Observations*. John Wiley 1997. 0471161195. Cloth \$69.95

Monastyrskii, Mikhail Il'ich. *Modern Mathematics in the Light of the Fields Medals*. AK Peters 1997. 1568810652. Cloth \$35.00

Ryan, Thomas P. *Modern Regression Methods*. John Wiley 1997. 0471529125. Cloth \$64.95

Mooney, Christopher Z. *Monte Carlo Simulation*. Sage Publications, 1997. 0803959435. Paper \$11.95

Hart, Jeffrey D. *Nonparametric Smoothing and Lack-of-fit Tests*. Springer-Verlag, 1997. 0387949801. Cloth \$44.95

Dehaene, Stanislas. *Number Sense: How the Mind Creates Mathematics*. Oxford Univ Press 1997. 0195110048. Cloth \$25.00

Shapiro, Stewart, 1951- *Philosophy of Mathematics: Structure and Ontology*. Oxford Univ Press 1997. 0195094522. Cloth \$49.95

PI: A Source Book; Ed. by Lennart Berggren. Springer-Verlag 1997. 0387949240. Cloth \$59.95

Cromwell, P. (Peter), 1964- *Polyhedra: "One of the Most Charming Chapters of Geometry."* Cambridge Univ Press 1997. 0521554322.

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Cloth \$44.95

Krantz, Steven G. (Steven George), 1951- *Primer of Mathematical Writing: Being a Disquisition on Having Your Ideas Recorded, Typeset, Published, Read and Appreciated*. American Mathematical Society 1997. 0821806351. Paper \$19.00

Hosking, J.R.M. (Jonathan Richard Morley), 1955- *Regional Frequency Analysis: An Approach Based on L-Moments*. Cambridge Univ Press 1997. 0521430453. Cloth \$69.95

Long, J. Scott. *Regression Models for Categorical and Limited Dependent Variables*. Sage Publications 1997. 0803973748. Cloth \$47.50

Klein, Judy L., 1951- *Statistical Visions in Time: A History of Time Series Analysis, 1662-1938*. Cambridge Univ Press 1997. 0521420466. Cloth \$64.95

Burgess, John P. *Subject with No Object: Strategies for Nominalistic Interpretation of Mathematics*. Clarendon/Oxford 1997. 0198236158. Cloth \$45.00

Dedekind, Richard, 1831-1916. *Theory of Algebraic Integers*. Cambridge Univ Press, 1996. 0521565189. Paper \$23.95

Allen, Michael Patrick. *Understanding Regression Analysis*. Plenum 1997. 0306456486. Cloth \$42.50

Wavelets, Multilevel Methods and Elliptic PDE's; Ed by M. Ainsworth. Clarendon/Oxford 1997. 0198501900. Cloth \$49.95

Hersh, Reuben, 1927- *What is Mathematics, Really?* Oxford Univ Press 1997. 0195113683. Cloth \$35.00

Konhauser, Joseph D. E., 1924-1992. *Which Way Did the Bicycle Go? — And Other Intriguing Mathematical Mysteries*. Mathematical Assn. of America 1996. 0883853256. Paper \$29.95

Henrion, Claudia. *Women in Mathematics: The Addition of Difference*. Indiana Univ Press 1997. 0253332796. Cloth \$39.95

Book Pricing Update
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were treated as textbooks. But in 1997, Cambridge published 73% of its computer science titles as textbooks.

A discussion of Cambridge be complete without considering titles published as lower under-works since many libraries, ing textbooks, usually exclude their approval plans. Between number of lower undergraduate-textbooks fluctuated, but al- siderably lower than the upper ones. In 1997, only six science designated as lower under- bearing such titles as *Phys- 500 problems & solutions*

textbooks would not the number of such graduate-level even those purchas- these titles from 1988 and 1997, the ate-level science ways remained con- undergraduate-level textbook titles were graduate-level, ics with answers: and *A Beginner's sion 3.0*. For many librarians it may be reassuring to know that, although Cambridge has increased its treatment of science textbooks, titles at the lower undergraduate level are not substantially contributing to the numbers.

As one of the most prominent University Presses, Cambridge is frequently included on general University Press publisher-based Approval or New Titles Announcement Service plans. However, their strong coverage in the sciences may be of particular interest to librarians considering publisher-based plans in Mathematics and the Natural Sciences. Some of the large sci-tech publishers, such as **Springer-Verlag**, **Birkhauser**, or **Elsevier**, are usually the first considered for such plans, given the tendency of University Presses to concentrate their coverage within the Humanities and Social Sciences. But Cambridge should not be overlooked as an integral part of any such plan. Their demonstrated commitment to science book publishing over the past ten years substantiates their significance to this field of scholarly publishing.

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