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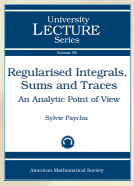


Regularised Integrals, Sums and Traces

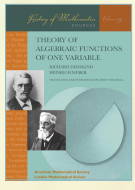
An Analytic Point of View

Applied Mathematics

Sylvie Paycha, *Universität Potsdam, Germany, and Université Blaise Pascal, Aubière, Cedex, France*

A new unified outlook on regularization techniques in various fields of mathematics and in quantum field theory that can serve as an introduction for anyone from a beginning mathematician to an experienced physicist.

University Lecture Series, Volume 59; 2012; approximately 193 pages; Softcover; ISBN: 978-0-8218-5367-2; List US$43; AMS members US$34.40; Order code ULECT/59



Theory of Algebraic Functions of One Variable

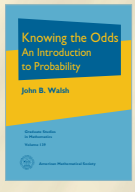
Richard Dedekind and **Heinrich Weber**

Translated and introduced by John Stillwell

The inaugural English translation of Dedekind and Weber's classic long paper provides easy access to the work for a wide mathematical audience.

A co-publication of the AMS and the London Mathematical Society.

History of Mathematics, Volume 39; 2012; 152 pages; Softcover; ISBN: 978-0-8218-8330-3; List US$49; AMS members US$39.20; Order code HMATH/39



Knowing the Odds

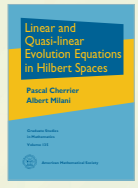
An Introduction to Probability

TEXTBOOK

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

A leisurely introduction to all of the standard material that one would want in a full year probability course, with a slant towards applications in financial analysis.

Graduate Studies in Mathematics, Volume 139; 2012; approximately 454 pages; Hardcover; ISBN: 978-0-8218-8532-1; List US$75; AMS members US$60; Order code GSM/139

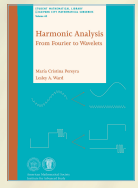


Linear and Quasi-linear Evolution Equations in Hilbert Spaces

Pascal Cherrier, *Université Pierre et Marie Curie, Paris, France*, and **Albert Milani**, *University of Wisconsin, Milwaukee, WI*

A valuable introduction to topics in the theory of evolution equations.

Graduate Studies in Mathematics, Volume 135; 2012; 377 pages; Hardcover; ISBN: 978-0-8218-7576-6; List US$75; AMS members US$60; Order code GSM/135



Harmonic Analysis

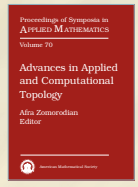
From Fourier to Wavelets

Applied Mathematics

María Cristina Pereyra, *The University of New Mexico, Albuquerque, NM*, and **Lesley A. Ward**, *University of South Australia, Mawson Lakes Campus, Adelaide, Australia*

A rich and engaging introduction to serious analysis and computational harmonic analysis through the lens of Fourier and wavelet analysis.

Student Mathematical Library, Volume 63; 2012; 410 pages; Softcover; ISBN: 978-0-8218-7566-7; List US$58; AMS members US$46.40; Order code STML/63



Advances in Applied and Computational Topology

Applied Mathematics

Afra Zomorodian, *The D. E. Shaw Group, New York, NY*, Editor

A broad introduction to recent techniques from applied and computational topology.

Proceedings of Symposia in Applied Mathematics, Volume 70; 2012; 232 pages; Hardcover; ISBN: 978-0-8218-5327-6; List US$60; AMS members US$48; Order code PSAPM/70

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