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MATHEMATICS

The academic Mathematics list at Oxford has a long tradition of exceptional scholarship across the breadth of mathematics, from pure mathematics to the many applications of mathematics and statistics. *Oxford Scholarship Online* will include selected titles from the key series: *Oxford Mathematical Monographs, Oxford Logic Guides, Oxford Statistical Science Series, Oxford Studies in Probability, Numerical Mathematics and Scientific Computation; Oxford Graduate Texts in Mathematics;* and the *Oxford Lecture Series in Mathematics and Its Applications*, in addition to a number of non-series collections and reference works.

January 2009

Algebra

Awodey	Category Theory (2006)
Haruzo Hida	Hilbert Modular Forms and Iwasawa Theory (2007)
Ramírez Alfonsín	The Diophantine Frobenius Problem (2005)

Applied Mathematics

Benzoni-Gavage & Serre	Multi-dimensional Hyperbolic Partial Differential Equations (2006)
Bisseling	Parallel Scientific Computation (2004)
Braides	Gamma-Convergence for Beginners (2002)
Chu & Golub	Inverse Eigenvalue Problems (2005)
Fabrizio & Morro	Electromagnetism of Continuous Media (2003)
Feireisl	Dynamics of Viscous Compressible Fluids (2003)
Grinberg & Kirsch	The Factorization Method for Inverse Problems (2007)
Modersitzki	Numerical Methods for Image Registration (2003)
Van Gestel & Baesens	Credit Risk Management (2008)
Vazquez	Smoothing and Decay Estimates for Nonlinear Parabolic Equations (2003)

Combinatorics / Graph Theory / Discrete Mathematics

Hell & Nesetril	Graphs and Homomorphisms (2004)
Koshy	Calatan Numbers with Applications (2008)
Niedermeier	Invitation to Fixed-Parameter Algorithms (2006)

Geometry / Topology

Boyer & Galicki	Sasakian Geometry (2007)
Corti (ed)	Flips for 3-Folds and 4-Folds (2007)
Huybrechts	Fourier-Mukai Transforms in Algebraic Geometry (2006)
Ranicki	Algebraic and Geometric Surgery (2002)

History of Mathematics

Beeley & Scriba	The Correspondence of John Wallis (1616 - 1703) Volume I (2003)
Beeley & Scriba	The Correspondence of John Wallis (1616 - 1703) Volume II (2005)
Campbell-Kelly et al (eds)	The History of Mathematical Tables (2003)
Copeland (ed)	Alan Turing's Automatic Computing Engine (2005)
Flood et al	Kelvin: Life, Labours and Legacy (2008)
Malcolm & Stedall	John Pell (1611-1685) and His Correspondence with Sir Charles Cavendish (2004)
Stedall	A Discourse Concerning Algebra (2003)
Stedall	The Greate Invention of Algebra (2003)

Logic / Computer Science / Mathematical Philosophy

Bell	Set Theory (2005)
Crosilla & Schuster (eds)	From Sets and Types to Topology and Analysis (2005)
Gabbay & Maksimova	Interpolation and Definability (2005)
Kossak & Schmerl	Structure of Nonstandard Models of Peano Arithmetic (2006)

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Pym & Ritter	Reductive Logic and Proof-search (2004)
Williamson	Bayesian Nets and Causality (2004)

Mathematical Physics

Ehrenpreis	The Universality of the Radon Transform (2003)
Gerbeau et al	Mathematical methods in magneto-hydrodynamics (2006)
Vazquez	The Porous Medium Equation (2006)

Numerical Analysis

Bellen & Zennaro	Numerical Methods for Delay Differential Equations (2003)
Bini et al	Numerical Methods for Structured Markov Chains (2005)
Karniadakis & Sherwin	Spectral/hp Element Methods for Computational Fluid Dynamics (2005)
Monk	Finite Element Methods for Maxwell's Equations (2003)

Probability / Statistics

Chatterjee	Statistical Thought (2003)

Davison et al (eds)	Celebrating Statistics (2005)
Gower & Dijksterhuis	Procrustes Problems (2004)
Grimmett & McDiarmid (eds)	Combinatorics, Complexity and Chance (2007)
Lauritzen	Thiele: Pioneer in Statistics (2002)
Lyons & Qian	System Control and Rough Paths (2002)
Morters et al (eds)	Analysis and Stochastics of Growth Processes and Interface Models (2008)
Penrose	Random Geometric Graphs (2003)
Small & Wang	Numerical Methods for Nonlinear Estimating Equations (2003)

Pure Mathematics

Baird & Wood	Harmonic Morphisms Between Riemannian Manifolds (2003)
Blecher & Le Merdy	Operator Algebras and Their Modules (2004)
Ivanov	The Fourth Janko Group (2004)
Lennox & Robinson	The Theory of Infinite Soluble Groups (2004)