

## 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.

### September 2007

---

#### Algebra

- Awodey** Category Theory (2006)
- Blecher & Le Merdy** Operator Algebras and Their Modules (2004)
- 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)
- Modersitzki** Numerical Methods for Image Registration (2003)
- Vazquez** Smoothing and Decay Estimates for Nonlinear Parabolic Equations (2003)

#### Combinatorics / Graph Theory / Discrete Mathematics

- Hell & Nesetril** Graphs and Homomorphisms (2004)
- Niedermeier** Invitation to Fixed-Parameter Algorithms (2006)

#### Geometry / Topology

- 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

- Campbell-Kelly et al (eds)** The History of Mathematical Tables (2003)
- Malcolm & Stedall** John Pell (1611-1685) and His Correspondence with Sir Charles Cavendish (2004)
- Stedall** A Discourse Concerning Algebra (2003)
- Stedall** The Great 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)
- 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)

- Grimmett & McDiarmid (eds)** Combinatorics, Complexity and Chance (2007)
- Lauritzen** Thiele: Pioneer in Statistics (2002)
- Lyons & Qian** System Control and Rough Paths (2002)
- Penrose** Random Geometric Graphs (2003)
- Small & Wang** Numerical Methods for Nonlinear Estimating Equations (2003)

## 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)

## Pure Mathematics

- Baird & Wood** Harmonic Morphisms Between Riemannian Manifolds (2003)
- Ivanov** The Fourth Janko Group (2004)
- Lennox & Robinson** The Theory of Infinite Soluble Groups (2004)

## Probability / Statistics

- Chatterjee Davison et al (eds)** Statistical Thought (2003)
- Gower & Dijksterhuis** Celebrating Statistics (2005)
- Dijksterhuis** Procrustes Problems (2004)

The very best scholarly books in the humanities and social sciences searchable online. The full text of over 1,800 Oxford books in Biology, Business, Classical Studies, Economics and Finance, History, Linguistics, Literature, Mathematics, Philosophy, Physics, Political Science, Psychology and Religion is available by annual subscription, or for purchase — together with specially commissioned book and chapter abstracts and keywords.

- **Link to individual book or chapters from online course packs and reading lists**
- **Direct links from bibliographies and footnotes to other online content**
- **Printer-friendly format**
- **Unlimited user licences available**

**New! Export citations to Endnote™, Reference Manager™, and ProCite™.**

Abstracts and keywords are available free to users all over the world. If you'd like desktop access to the full

text of over 1,800 Oxford books online, please recommend to your librarian.

### CONTACT US:

**Institutions in North and South America**

**By email:** [oxfordonline@oup.com](mailto:oxfordonline@oup.com)

**Institutions outside North and South America**

**By email:** [onlineproducts@oup.com](mailto:onlineproducts@oup.com)

For full listings of all the books available in OSO please visit [www.oxfordscholarship.com](http://www.oxfordscholarship.com)

To receive news about the updates to **Oxford Scholarship Online** by email please sign up at: [www.oxfordscholarship.com/emailnews](http://www.oxfordscholarship.com/emailnews)

For details of other Oxford Online products please visit: [www.oxfordonline.com](http://www.oxfordonline.com)