

## OXFORD GRADUATE TEXTS

**Supersymmetry***Theory, Experiment, and Cosmology***Pierre Binétruy**,  
University of Paris 7,  
France

This book describes the basic concepts of supersymmetric theories. It is aimed at theorists, experimentalists and cosmologists interested in supersymmetry. Some very basic knowledge of quantum field theory is needed and extensive appendices (in particular an introduction to the Standard Model of fundamental interactions) allow the reader to refresh and complete their notions.

2006 | 536 pages

978-0-19-850954-7, HARDBACK £49.95/\$100.00

**Phase Transitions and Renormalisation Group****Jean Zinn-Justin**, Dapnia,  
CEA/Saclay, France

The renormalization group is one of most important theoretical concepts that has emerged in physics during the twentieth century. It explains important properties of fundamental interactions at the microscopic scale, as well as universal properties of continuous macroscopic phase transitions.

July 2007 | 464 pages

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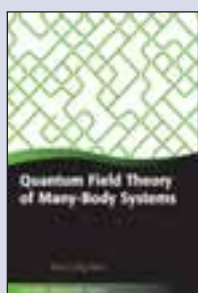
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Massachusetts Institute  
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Physics Today, November 2005.

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978-0-19-922725-9, PAPERBACK £22.95/\$42.50  
978-0-19-853094-7, HARDBACK £45.00/\$99.50**Quantum Monte Carlo***Origins, Development, Applications***James B. Anderson**, Evan Pugh Professor, Departments  
of Physics and Chemistry, Pennsylvania State University

This book takes a similar approach to Henry Schaefer's classic book *Quantum Chemistry* (OUP, 1984 now a Dover edition), collecting summaries of some of the most important papers in the quantum Monte Carlo literature and tying everything together with analysis and discussion of applications. Quantum Monte Carlo is a reference book for quantum Monte Carlo applications, belonging near the desk of every quantum chemist, physicist, and wide range of scientist and engineers across many disciplines. Destined to become a classic.

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**Electromagnetic Scattering from Random Media****Timothy R. Field**, McMaster University, Canada

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International Series of Monographs on Physics

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of Physics, University of  
California, Davis

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Zentralblatt Math, Volume 1087 (2006/13)

Helmut Rumpf (Wien) (Wien)

The book provides a detailed survey of the modern developments in supersymmetry that are essential preparation for a graduate student or researcher intending to enter into particle theory or string theory.

International Series of Monographs on Physics No. 132

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School of Physics, University  
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Physics Today

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Freiburg and Istituto Italiano  
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Albert-Ludwigs-Universitaet  
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per gli Studi Filosofici

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