

In Defence of Objective Bayesianism

Jon Williamson, University of Kent

Objective Bayesianism is a methodological theory that is currently applied in statistics, philosophy, artificial intelligence, physics and other sciences. This book develops the formal and philosophical foundations of the theory, at a level accessible to a graduate student with some familiarity with mathematical notation.

May 2010 | 192 pages

978-0-19-922800-3, HARDBACK

£44.95/\$85.00



Statistics and Scientific Method

An Introduction for Students and Researchers

Peter J. Diggle, Lancaster University; Johns Hopkins University and Columbia University, and Amanda G. Chetwynd, Lancaster University

An antidote to technique-orientated approaches, this text avoids the recipe-book style, giving the reader a clear understanding of how core statistical ideas of experimental design, modelling, and data analysis are integral to the scientific method. No prior knowledge of statistics is required and a range of scientific disciplines are covered.

July 2011 | 208 pages | 82 line illustrations | 11 b/w halftones
4 colour plates

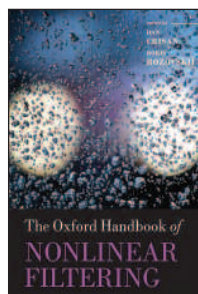
978-0-19-954319-9, PAPERBACK

£19.95/\$34.95

978-0-19-954318-2, HARDBACK

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The Oxford Handbook of Nonlinear Filtering



Edited by Dan Crisan, Imperial College London, and Boris Rozovskii, Brown University, USA

The Oxford Handbook of Nonlinear Filtering is a comprehensively written source for the subject. It contains results from the classical theory of the subject and also recent ones with contributions from 58

authors. The contributions are collated into ten parts ranging from the foundations of nonlinear filtering, connections to stochastic partial differential equations, stability and asymptotic analysis, estimation and control, special topic to approximations theory and numerical methods for solving the nonlinear filtering problem including particle methods.

Oxford Handbooks in Mathematics

February 2011 | 1,088 pages | 32 black and white illustrations

978-0-19-953290-2, HARDBACK

£110.00/\$220.00

The Quest for a Fusion Energy Reactor

An Insider's Account of the INTOR Workshop

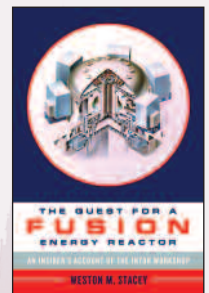
Weston Stacey, Georgia Institute of Technology

Based on the journal of one of the principal participants, this book provides a history of the IAEA INTOR Workshop (1978–88) during which hundreds of fusion scientists and engineers collaborated to define an experimental fusion energy reactor. The INTOR Workshop led to the present international ITER project, a collaborative effort to construct the first fusion energy reactor.

May 2010 | 198 pages | 8 line drawings & 10 halftones
OUP USA

978-0-19-973384-2, HARDBACK

£14.99/\$24.95



NEW IN PAPERBACK

The Physics of Inertial Fusion

Beam Plasma Interaction, Hydrodynamics, Hot Dense Matter



Stefano Atzeni, Università di Roma "La Sapienza" and INFN, Italy, and Jürgen Meyer-ter-Vehn, Technical University of Munich, Germany

This book is about fusion energy, burning hydrogen which is available from water. It is the energy source of the sun. It produces neither greenhouse gases

leading to global warming nor long-lived nuclear waste. Here we describe how to use powerful lasers to ignite the hydrogen fuel. There are presently two large laser facilities under construction to demonstrate that this method works. This book discusses the physics of this future energy source and addresses people who work on it or want to understand its technical basis.

International Series of Monographs on Physics No. 125

2009 | 480 pages | 237 line drawings and halftones

978-0-19-956801-7, PAPERBACK

£48.50/\$85.00

978-0-19-856264-1, HARDBACK

£149.95/\$250.00

Plasma Spectroscopy

Takashi Fujimoto, Kyoto University, Japan

'...the book is actually very readable considering the heavy theory and mathematics associated with the topic. The book has a good technical depth...it is a good book for graduates.'

IEEE Electrical Insulation Magazine

International Series of Monographs on Physics No. 123

2004 | 300 pages | numerous figures | Clarendon Press

978-0-19-853028-2, HARDBACK

£110.00/\$225.00



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NEW EDITION

Tokamaks

FOURTH EDITION

John Wesson (retired), JET, Culham Science Centre, Abingdon, Oxon

'John Wesson's well known book provides an excellent introduction to fusion orientated plasma physics in tokamaks ... This reference book should be on the shelf of every fusion scientist and graduate student.'

Plasma Physics and Controlled Fusion

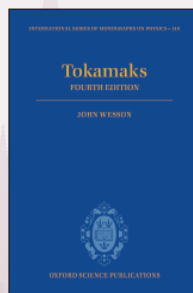
The tokamak is the principal tool in controlled fusion research. This book acts as an introduction to the subject and a basic reference for theory, definitions, equations, and experimental results. The fourth edition has been completely revised, describing their development of tokamaks to the point of producing significant fusion power.

International Series of Monographs on Physics No. 149

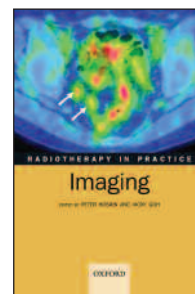
May 2011 | 800 pages | 450 b/w line and half-tone illustrations

978-0-19-959223-4, HARDBACK

£165.00/\$350.00



Radiotherapy in Practice - Imaging



Edited by **Peter Hoskin**, University College London, and **Vicky Goh**, Mount Vernon Hospital, Middlesex

Imaging is a critical component in the delivery of radiotherapy to patients with malignancy, and this book teaches the principles and practice of imaging specific to radiotherapy. Introductory chapters

outline the basic principles of the available imaging modalities including x-rays, ultrasound, CT, MR, nuclear medicine, and PET. The important areas of radiation protection, exposure justification, and risks, are also comprehensively covered, exploring issues such as balancing radiation exposure with long-term risks of radiation effects such as second cancer induction.

Radiotherapy in Practice

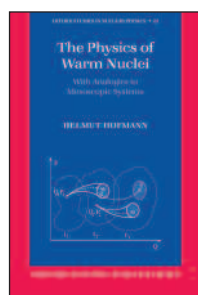
January 2010 | 352 pages | 140 b/w halftones
2 b/w line drawings | 8 page colour plate section

978-0-19-923132-4, PAPERBACK

£39.95/\$79.95

The Physics of Warm Nuclei

with Analogies to Mesoscopic Systems



Helmut Hofmann, Technical University of Munich

The book describes in detail modern developments in theories of small many body systems, like nuclear complexes in accelerator experiments or metal clusters. To make the book self-contained, topics of very general nature are included such as Equilibrium- and non-Equilibrium Thermodynamics, Linear Response Theory, Functional Integrals and Transport Theory.

Oxford Studies in Nuclear Physics No. 25

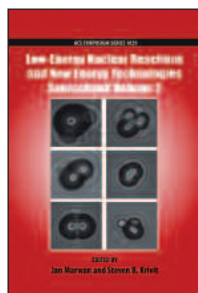
2008 | 648 pages | 51 b/w line drawings

978-0-19-850401-6, HARDBACK

£75.00/\$150.00

Low-Energy Nuclear Reactions and New Energy

Technologies Sourcebook Volume 2



Edited by **Jan Marwan**, Research Scientist, and **Steven Krivit**, New Energy Times

This book is a summary of selected experimental and theoretical research performed over the last 19 years that gives profound and unambiguous evidence for low energy nuclear reaction (LENR), historically

known as cold fusion, offering insight into its controversial subject and helping readers to re-evaluate their perspective on LENR as a possible alternative energy source.

ACS Symposium Series

November 2010 | 300 pages | 110 illustrations | OUP USA

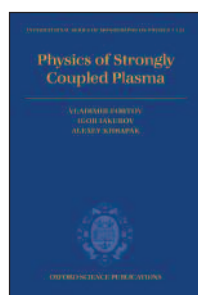
978-0-8412-2454-4, HARDBACK

£95.00/\$150.00

Physics of Strongly Coupled Plasma



Vladimir Fortov, Igor Iakubov, and Alexey Khrapak, all at the Russian Academy of Sciences



The authors discuss the principal theoretical methods and models used for strongly coupled plasmas in physics and astrophysics, engineering, and materials science. It includes experimental results of thermodynamical, transport, and optical properties, and modern methods of generation and diagnostics of strongly coupled plasmas.

International Series of Monographs on Physics No. 135

2006 | 534 pages | 228 line drawings and 5 halftones

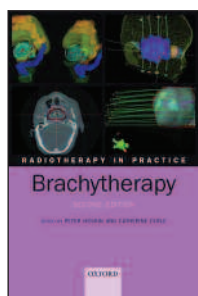
978-0-19-929980-5, HARDBACK

£85.00/\$150.00

NEW EDITION

Radiotherapy in Practice - Brachytherapy

SECOND EDITION



Edited by **Peter Hoskin**, University College London, and **Catherine Coyle**, St James Institute of Oncology, Leeds

This book provides practical guidance on the use of brachytherapy. Each chapter gives the reader a solid background in the physics and dosimetry of the technique, followed by practical information on its use in common disease sites.

Radiotherapy in Practice

February 2011 | 248 pages | 62 black and white halftones
41 black and white line drawings and an 8-page colour plate section

978-0-19-960090-8, PAPERBACK

£49.95/\$72.50

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