S Sakata (1911 – 1970) was an outstanding leader of Japanese physicists and produced many important papers on science as well as its methodology. He developed the meson theory with H Yukawa and obtained his PhD in 1941. In 1942 he proposed the “Two-Meson Theory” with T Inoue and was appointed to a professorship in Nagoya University, where he stayed for the rest of his career. In 1955 he proposed a composite model for hadrons (the Sakata model) that became the inspiration for the later Cabibbo – Kobayashi – Maskawa matrix of 1973, which led to the Nobel Prize in Physics for T Maskawa and M Kobayashi. In 1962, he proposed the Maki – Nakagawa – Sakata matrix with Z Maki and M Nakagawa. This theory was important in understanding the phenomenon of neutrino mixing and was established experimentally in 1998 at the Takayama conference.

In commemoration of Professor Sakata’s work, Nobel laureate T Maskawa and a scientific committee from the Kobayashi-Maskawa Institute and Department of Physics of Nagoya University put together this volume that consists of a selection of Sakata’s scientific papers, as well as some important scientific papers influenced by him, including the Kobayashi – Maskawa paper.

**Readership:** Graduate students and researchers interested in particle physics or the work of Prof. Shoichi Sakata.

450pp Jan 2016
978-981-4663-90-8 US$98 £65

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**50 Years of Quarks**

*Edited by Harald Fritzsch (Ludwig Maximilian University of Munich, Germany) & Murray Gell-Mann (Santa Fe Institute, USA)*

On the 50th anniversary of the quark model, this invaluable volume looks back at the developments and achievements in the elementary particle physics that eventuated from that beautiful model. Written by an international team of distinguished physicists, each of whom have made major developments in the field, the volume provides an essential overview of the present state to the academics and researchers.


**Readership:** Academics and researchers interested in elementary particle physics.

516pp May 2015
978-981-4618-09-0 US$118 £78
978-981-4618-10-6(pbk) US$48 £32
With a Foreword by Steven Weinberg

“The authors have compiled a refreshing mix of historical anecdotes and examples from music to sport and biology to astronomy to lighten up the heavier taste of particle physics and cosmology... It is both an enjoyable read and very pleasant to browse at leisure... It fully conveys the authors’ amazement at — as Feynman put it — our fantastically marvellous universe.”

“Prof. Yang’s achievements certainly has a great deal to reflect upon and propound, such as attested to by his many speeches on different occasions and contributions to various publications, which make up slightly more than one-third of the book. Among the 47 articles included, close to a quarter are original research papers.”

“Prof. Yang’s achievements certainly has a great deal to reflect upon and propound, such as attested to by his many speeches on different occasions and contributions to various publications, which make up slightly more than one-third of the book. Among the 47 articles included, close to a quarter are original research papers.”

The 25th Solvay Conference had an ambitious theme: The Theory of the Quantum World... It was exciting to see the strong connections between those different areas, and this excitement has been captured in these proceedings. This book documents that 100 years after the first Solvay Conference in Physics, quantum physics still poses puzzles... It is both an enjoyable read and very pleasant to browse at leisure... It fully conveys the authors’ amazement at — as Feynman put it — our fantastically marvellous universe.”

“The book reveals the extraordinary complexity of our universe — it is a fascinating journey.”

Readership: Science enthusiasts and students.

Readership: Graduate students and researchers in particle physics and statistical physics.

Readership: Graduate students and researchers in particle physics and statistical physics.

Readership: Graduate students and researchers in particle physics.

Readership: Graduate students and researchers in particle physics.
Annual Review of Cold Atoms and Molecules - Volume 3

**Annual Review of Cold Atoms and Molecules**

**Volume 3**

**Honorary Advisors**
Claude Cohen-Tannoudji
Yiqiu Wang

**edited by Kirk W Madison** (University of British Columbia, Canada), **Kai Bongs** (University of Birmingham, UK), **Lincoln D Carr** (Colorado School of Mines, USA), **Ana Maria Rey** (JILA, University of Colorado, USA) & **Hui Zhai** (Tsinghua University, China)

The aim of this book is to contain review articles describing the latest theoretical and experimental developments in the field of cold atoms and molecules. Our hope is that this series will promote research by both highlighting recent breakthroughs and by outlining some of the most promising research directions in the field.

**Contents:** Strongly Interacting Two-Dimensional Fermi Gases; Few-Body Physics of Ultracold Atoms and Molecules with Long-Range Interactions; Spin-Orbit Coupling in Optical Lattices; Microscopy of Many-Body States in Optical Lattices; Spin-Orbit-Coupled Bose–Einstein Condensates

**Readership:** Research scientists including graduate students and upper level undergraduate students.

**264pp**

798-981-4667-73-9 Mar 2015

US$59 £42

**BSC: 50 Years**

**edited by Leon N Cooper & Dmitri Feldman** (Brown University, USA)

“... the editors deserve praise for the selection of topics and for enlisting a distinguished set of authors. BCS: 50 Years is a successful attempt to capture the history of the development of superconductivity theory and its continuing impact. Any person curious about superconductivity will find something in this book to enjoy.”

**Physics Today**

**Readership:** Students, researchers and academics interested in BCS theory and its origin.

**588pp**

798-981-4304-64-1 Nov 2010

US$135 £89

798-981-4304-65-8(pbk) US$48 £32

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**Playing with Planets**

by Gerard ’t Hooft (University of Utrecht, The Netherlands)

“I much enjoyed wandering the world, following this enquiring and original mind.”

**CERN Courier**

If you think the future is a mystery, think again. With a solid foothold in realism, an extraordinary insight into scientific and technological developments, and a dry sense of humor, Nobel laureate Professor Gerard ’t Hooft confidently dissects fact from fiction and shows us what our future might really hold. Professor ’t Hooft takes the reader firmly by the hand and, within the boundaries of solid physics and proven laws of nature, takes us on a ride into the world of the future, which holds remarkable surprises for us all. “Do you dream of intergalaxy space travel, time warps, and mini-mes?” ’t Hooft asks. “Then please, get yourself some more science fiction books, for fiction it is. But for those who are interested in the real world, let me tell you what we CAN expect for the future.” We meet robots with a sense of irony, ride elevators into space, and build floating cities; let us just say that Playing with Planets, which is translated from the original Dutch edition by Professor ’t Hooft’s daughter Saskia, supports the old adage that truth is indeed stranger than fiction.

**Readership:** Students and lay readers.

**152pp**


US$51 £34

798-981-279-020-0(pbk) US$22 £15

**Advances in Atomic Physics**

**An Overview**

by Claude Cohen-Tannoudji (Collège de France & Laboratoire Kastler Brossel, France) & David Guéry-Odelin (Laboratoire Collisions Agrégats Réactivité, France)

“French Nobel Laureate Claude Cohen-Tannoudji is second to none in his understanding of the modern theory and application of atom-photon interactions. He is also known for his lucid and accessible writing style ... Advances in Atomic Physics is an impressive and wonderful-to-read reference text ... Certainly researchers in the fields of atom-photon interactions and atom traps will want it as a reference on their bookshelves ... A selection of chapters may be of benefit to students: the early chapters for those entering the field, the later chapters for those already doing atom-laser PhD thesis work.”

**Physics Today**

**Readership:** Graduate students, researchers and academics interested in quantum and atomic physics.

**796pp**

798-981-277-496-5 Sep 2011

US$105 £69

798-981-277-497-2(pbk) US$51 £34

**More and Different**

**Notes from a Thoughtful Curmudgeon**

by Philip W Anderson (Princeton)

“Anderson has put together an entertaining and instructive collection of highly readable reviews, columns, talks, and unpublished essays on science and the scientists he has known. He is rarely inappropriately provocative, and he is a pleasure to read.”

**Physics Today**

**Readership:** Students, scientists and lay people.

**424pp**

798-981-4350-12-9 Sep 2011

US$78 £51

798-981-4350-13-6(pbk) US$30 £25
50 Years of Yang-Mills Theory
edited by Gerardus ’t Hooft (Utrecht University, The Netherlands)

“It was a brilliant idea to signal the 50th birthday of Yang-Mills theory by gathering together a wide range of articles by leading experts on many aspects of the subject. The result is a most handsome tribute of both historical and current interest, and a substantial addition to the existing literature … This unusual and elegant festschrift is a treat for theorists.”

Readership: All physicists and mathematicians.

500pp Feb 2005
978-981-238-934-3 US$110 £73
978-981-256-007-0(pbk) US$38 £25

Fantastic Realities
49 Mind Journeys and A Trip to Stockholm
by Frank Wilczek (MIT)

“Wilczek’s writing is deeply intellectual. The essays are centred around QFT but range far more widely. They display a sensitive appreciation of subtle features of the culture of modern physical science … it is fascinating to see Wilczek circling round the same set of ideas. There is much concentrated wisdom here, and he has a deft touch with words.”

Readership: Students, scientists and lay people.

532pp Mar 2006
978-981-256-649-2 US$100 £66
978-981-256-655-3(pbk) US$39 £26

Superconductivity
Revised Edition
by V L Ginzburg & E A Andryushin
(P N Lebedev Physics Institute, Russia)

“First written in 1989, this non-technical introduction to superconductivity has now been published as a revised edition. Written in a lively style, the book provides an excellent background for students at school or college, without recourse to mathematics. One of the authors, Ginzburg, received the Nobel Prize for Physics in 2003.”

Readership: Undergraduates in condensed-matter, quantum, experimental and general physics, as well as lay people.

104pp Oct 2004
978-981-238-913-8 US$29 £19

Properties of Perovskites and Other Oxides
edited by K Alex Müller (University of Zürich, Switzerland) & Tom W Kool (University of Amsterdam, The Netherlands)

“This collection of reprints allows the reader to chart the course of Müller’s scientific development, from his early papers in the late 1950s all the way to high-temperature superconductivity in 1985 … A particular highlight is Müller’s work on the Jahn-Teller effect … written in 1967 and appearing only as an article in a conference proceedings is a gem. Other treasures include the reviews on structural phase transitions (from 1981 and 1991, respectively) that are otherwise only obtainable in specialist books.”

Readership: Researchers in condensed matter physics.

584pp May 2010
978-981-4293-35-8 US$138 £91
978-981-4317-69-6(pbk) US$58 £38

Collected Papers of Carl Wieman
by Carl E Wieman (University of Colorado, USA)

Carl Wieman’s contributions have had a major impact on defining the field of atomic physics as it exists today. His ground-breaking research has included precision laser spectroscopy; using lasers and atoms to provide important table-top tests of theories of elementary particle physics; the development of techniques to cool and trap atoms using laser light, particularly in inventing much simpler, less expensive ways to do this; the understanding of how atoms interact with one another and light at ultracold temperatures; and the creation of the first Bose – Einstein condensation in a dilute gas, and the study of the properties of this condensate. In recent years, he has also turned his attention to physics education and new methods and research in that area. This indispensable volume presents his collected papers, with annotations from the author, tracing his fascinating research path and providing valuable insight about the significance of the works.

Readership: Graduates, postgraduates and researchers in atomic physics, laser physics and general physics.

824pp Jan 2008
978-981-270-415-3 US$234 £155
978-981-270-416-0(pbk) US$68 £45

World Scientific Series in 20th Century Physics - Vol 35
A Career in Theoretical Physics
2nd Edition
by Philip W Anderson (Princeton)

This unique volume presents the scientific achievements of Nobel laureate Philip Anderson, spanning the many years of his career. In this new edition, the author has omitted some review papers as well as added over 15 of his research papers. As in the first edition, he provides an introduction to each paper by explaining the genesis of the papers or adding some personal history.

The book provides a comprehensive overview of the author’s work which include significant discoveries and pioneering contributions, such as his work on the Anderson model of magnetic impurities and the concept of localization; the study of spin glasses, the fluctuating valence problem and superexchange; his prediction of the existence of superfluidity in He3; his involvement in the discovery of the Josephson effect; his discovery of the “Higgs” mechanism in elementary particle physics; and so on.

Readership: Physicists, chemists and materials scientists.

884pp Jan 2005
978-981-238-865-0 US$133 £88
978-981-238-866-7(pbk) US$38 £38
Facts and Mysteries in Elementary Particle Physics
by Martinus J G Veltman (University of Michigan, Ann Arbor, USA & NIKHEF, The Netherlands)

"Veltman gives an excellent impression of how science works and how the desire to penetrate into the unknown is what fires the enthusiasm of scientists. He also manages to explain the most abstract intricacies of particle theory without using any mathematics whatsoever ... I can fully recommend this book to students and interested lay readers, who will gain a fascinating insight into the sub-nuclear world — from a theoretical experimental and personal point of view."

Physics World
Readership: Students, lay people and anyone interested in the world of elementary particles.

348pp May 2003
978-981-238-149-1 (pbk) US$24 £16
978-981-238-148-4 US$65 £43

World Scientific Series on Atomic, Molecular and Optical Physics - Vol 3
Atoms in Electromagnetic Fields
2nd Edition
by C Cohen-Tannoudji (Collège de France, Paris)

“The production quality is very high; even the smallest symbols are easily readable, and some papers are reproduced in color. The clarity of the exposition, the wide range of topics, and the logic of the presentation make this a valuable teaching reference. This book is highly recommended for physicists and students working on atoms in intense laser fields, laser cooling and trapping and Bose – Einstein condensation.”

Optics & Photonics News
Readership: Graduate students, academics, researchers and engineers in atomic and laser physics.

768pp Nov 2004
978-981-238-942-8 US$174 £115
978-981-256-019-3 (pbk) US$58 £38

Dark Matter in the Universe
2nd Edition
4th Jerusalem Winter School for Theoretical Physics Lectures
edited by John Bahcall (Institute for Advanced Study, Princeton, USA), Tsvi Piran (The Hebrew University, Israel) & Steven Weinberg (University of Texas at Austin, USA)

This book is the second edition of the lectures given at the 4th Jerusalem Winter School for Theoretical Physics, with new material added. The lectures are devoted to the “missing matter” problem in the universe, the search to understand dark matter. The goal of this lecture series is to make current research work on unseen matter accessible to students without prior experience in this area and to provide insights for experts in related research fields. Due to the pedagogical nature of the original lectures and the intense discussions between the lecturers and the students, the written lectures included in this volume often contain techniques and explanations not found in more formal journal publications.

Readership: Astrophysicists, high energy physicists and advanced students.

248pp Sep 2004
978-981-238-840-7 US$145 £96
978-981-238-841-4 (pbk) US$48 £32

Statistical Mechanics of Membranes and Surfaces
2nd Edition
edited by D Nelson (Harvard University, USA), T Piran (Hebrew University, Israel) & S Weinberg (University of Texas at Austin, USA)

“The additional chapters added for the second edition highlight some of the new results (consequences of anisotropy), and place the older contributions in better perspective (renormalizability, connections to triangulated surfaces). The revised edition will serve as an even better introduction to this interesting topic at the intersection of geometry, field theory, and polymer physics.”

Mehran Kardar
Professor of Physics, MIT
Readership: Condensed matter physicists, biophysicists, polymer scientists and statistical mechanicians.

444pp Jun 2004
978-981-238-760-8 US$87 £57
978-981-238-772-1 (pbk) US$45 £29

A Garden of Quanta
Essays in Honor of Hiroshi Ezawa
edited by J Araiune (National Institute for Academic Degrees, Japan), A Arai (Hokkaido University, Japan), M Kobayashi (KEK, Japan), T Nakamura (Meiji University, Japan), T Nakamura (Sundai Preparatory School, Japan), O Ojima (Kyoto University, Japan), N Sakai (Tokyo Institute of Technology, Japan), A Tonomura (Hitachi Ltd, Japan) & K Watanabe (Meisei University, Japan)

This book is a collection of reviews and essays about the recent wide-ranging developments in the areas of quantum physics. The articles have mostly been written at the graduate level, but some are accessible to advanced undergraduates. They will serve as good introductions for beginning graduate students in quantum physics who are looking for directions. Aspects of mathematical physics, quantum field theories and statistical physics are emphasized.

Readership: Upper level undergraduates, graduate students and researchers in quantum, mathematical, theoretical and statistical physics.

524pp Jul 2003
978-981-238-445-4 US$217 £143

Series in Modern Condensed Matter Physics - Vol 12
Simple Views on Condensed Matter
3rd Edition
by Pierre-Gilles de Gennes (Collège de France)

Review of the first edition: “This book collects a series of articles in which problems which had always been thought quite intractable are shown to be solved by simple, but clear thinking. Although the phrase ‘simple views’ is justified by the clarity of de Gennes’ exposition, the problems had been unresolved for decades and it is a tribute to de Gennes’ intuitive skill that he has been able to solve so many problems which are not only deep basic science, but also central in modern technology.”

Sam Edwards
Univ. Cambridge, UK
Readership: Physicists, chemists, hydrodynamicists and materials scientists.

576pp Apr 2003
978-981-238-278-8 US$104 £69
978-981-238-282-3 (pbk) US$48 £32
John S Bell on the Foundations of Quantum Mechanics
edited by M Bell (CERN), K Gottfried (Cornell) & M Veltman (University of Michigan, Ann Arbor)

This book is the most complete collection of John S Bell's research papers, review articles and lecture notes on the foundations of quantum mechanics. Some of this material has hitherto been difficult to access. The book also appears in a paperback edition, aimed at students and young researchers.

Readership: Undergraduates, graduate students and researchers in physics.

248pp Aug 2001
978-981-02-4687-7 US$50 £33
978-981-02-4688-4(pbk) US$24 £16

Formation and Evolution of Black Holes in the Galaxy
Selected Papers with Commentary
edited by H A Bethe (Cornell), G E Brown (State University of New York at Stony Brook, USA) & C-H Lee (Seoul National University, South Korea)

This invaluable book contains 23 papers on astrophysics, chiefly on compact objects, written over 23 years. The papers are accompanied by illuminating commentary. In addition there is an appendix on kaon condensation which the editors believe to be relevant to the equation of state in neutron stars, and to explain why black holes are formed at relatively low masses.

Readership: Researchers in astrophysics.

520pp Mar 2003
978-981-238-211-5 US$193 £127
978-981-238-250-4(pbk) US$46 £30

The Creation of Quantum Chromodynamics and the Effective Energy
In Honour of A Zichichi on the Occasion of the Galvani Bicentenary Celebrations
by V N Gribov, G ’t Hooft, G Veneziano & V F Weisskopf
edited by L N Lipatov

UNDER THE SPELL OF THE GAUGE PRINCIPLE —
by G ’t Hooft

The discovery of QCD will be recalled in the future as one of the greatest achievements of mankind. Many physicists, the world over, have contributed to its creation on both the experimental and the theoretical front. Professor Antonino Zichichi has played an important role in this scientific venture, as documented by his works which are reproduced in this invaluable volume.

Readership: High energy and mathematical physicists.

372pp Jan 2001
978-981-02-4141-4 US$207 £136

Nuclear Structure
(In 2 Volumes)
by Aage Bohr (University of Copenhagen) & Ben R Mottelson (Nordita, Copenhagen)

After many years, this classic two-volume treatise is now available again in an unabridged reprint. These volumes present the basic features of nuclear structure in terms of an integration of collective and independent particle aspects and remain a foundation for current efforts in the field. Central to the book's value is an approach that recognizes the many connections between concepts of nuclear physics and those of other many-body systems, and that deals boldly with the interplay between theory and experiment. Aside from the main text, which provides a systematic exposition of the subject, there are sections labeled “Illustrative Examples”, which present detailed analyses of experimental results and the manner in which they illuminate the concepts developed in the text. Many useful appendices on general theoretical tools are also included, covering topics such as angular momentum algebra, symmetry problems, statistical description of level densities, and theory of nuclear reactions and decays.

1256pp Jan 1998
978-981-02-3197-2(Set) US$210 £139
World Scientific Lecture Notes in Physics - Vol 58

**Concepts in Solids**
Lectures on the Theory of Solids  
by P W Anderson (Princeton)

These lecture notes constitute a course on a number of central concepts of solid state physics — classification of solids, band theory, the developments in one-electron band theory in the presence of perturbation, effective Hamiltonian theory, elementary excitations and the various types of collective elementary excitation (excitons, spin waves and phonons), the Fermi liquid, ferromagnetic spin waves, antiferromagnetic spin waves and the theory of broken symmetry.

**Readership:** Condensed matter physicists.

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World Scientific Series in 20th Century Physics - Vol 16

**Encounters in Nonlinear Optics**
Selected Papers of Nicolaas Bloembergen (With Commentary)  
edited by Nicolaas Bloembergen (Harvard)

This selection of papers in the field of nonlinear optics contains reprints of original research, and general reviews written since 1960 up to the present. Brief comments by the author place each paper in a historical context of the evolution of nonlinear optics. Papers are selected from a more comprehensive bibliography either on the basis of their influence on subsequent developments or because they were originally published in journals or conference proceedings which are less easily accessible.

**Readership:** Researchers in nonlinear optics.

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World Scientific Series in 20th Century Physics - Vol 15

**Encounters in Magnetic Resonances**
Selected Papers of Nicolaas Bloembergen (With Commentary)  
edited by Nicolaas Bloembergen (Harvard)

This book presents a selection of papers, written by Nicolaas Bloembergen and his associates during the years 1946 – 1962, on the subjects of nuclear magnetic relaxation, paramagnetic relaxation and masers, and magnetic resonance spectroscopy of solids. The volume begins with autobiographical notes to provide a personal historical background. Each paper is preceded by commentary with additional information regarding the early development of magnetic resonance in condensed matter. A reproduction of his Ph.D. thesis, “Nuclear Magnetic Relaxation”, Leiden, 1948, is included in this volume.

**Readership:** Researchers of magnetic resonance and history of science.

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**Selected Works of Hans A Bethe**
(With Commentary)  
by Hans A Bethe (Cornell)

“Physicists of all ages and specialties will find much here to enlighten them about the astounding growth in our understanding of the physical universe in the last 70 years, in the original words of a master contributor to that growth.”

**Physics Today**

“This book gives a fascinating picture of the early development of quantum mechanics ... If you want your library to have good source material on the history of modern theoretical physics you should see that it acquires this book.”

D Thouless  
University of Washington, Seattle

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**Nonlinear Optics**
4th Edition  
by Nicolaas Bloembergen (Harvard)

“... The field of Nonlinear Optics today has grown into a vast enterprise with a considerable potential for technological applications. New nonlinear optical materials and devices are in various stages of development. Purely optical information processing looms on the horizon. At the same time, basic research in nonlinear optical phenomena retains its vitality. Topics of current interest include, among others, optical solitons, femto-second time-resolved spectroscopy and squeezed quantum states ... An epilogue provides some corrective notes as well as a list of more up-to-date textbooks.”


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**Reflections on Experimental Science**
by M L Perl (Stanford)

“... the real jewels in this book are Perl's personal comments and reflections, which appear both as prefaces to each paper and as separate essays. With these he puts the flesh and feeling on his experimental work and on the field as a whole ... Perl's approach and taste in particle physics is refreshing. He has produced a rare book that provides reflection for his colleagues and inspiration for young experimentalists.”

CERN Courier

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This book commemorates the groundbreaking research leading to the evolution of such detectors carried out at CERN by Georges Charpak, Nobel Prize winner for Physics in 1992. Besides collecting his key papers, the book also includes original linking commentary which sets his work in the context of other worldwide research.

Readership: Nuclear physicists, particle physicists and applied physicists.

Mathematics Abstracts

Readership: Physicists and philosophers of science.

Physics World

“Anybody knows J S Bell from his inequality, but that his engagement in fundamental questions of quantum physics and philosophy was much broader one can learn from this book.”

Mathematical Reviews

Readership: Theoretical physicists.

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