

New & Classic TEXTBOOKS for Physics Undergraduates



Classical Mechanics (5th Edition)

by Tom W B Kibble & Frank H Berkshire (Imperial College London, UK)

This is the fifth edition of a well-established textbook. It is intended to provide a thorough coverage of the fundamental principles and techniques of classical mechanics, an old subject that is at the base of all of physics, but in which there has also in recent years been rapid development. It emphasizes the basic principles, and aims to progress rapidly to the point of being able to handle physically and mathematically interesting problems, without getting bogged down in excessive formalism. Lagrangian methods are introduced at a relatively early stage, to get students to appreciate their use in simple contexts. Later chapters use Lagrangian and Hamiltonian methods extensively, but in a way that aims to be accessible to undergraduates, while including modern developments at the appropriate level of detail. The subject has been developed considerably recently while retaining a truly central role for all students of physics and applied mathematics.

500pp	Jun 2004	
978-1-86094-424-6	US\$86	£71
978-1-86094-435-2(pbk)	US\$86	£71

Introduction to Modern Physics

Theoretical Foundations

by John Dirk Walecka (College of William and Mary, USA)

"The author is obviously well versed in both teaching and writing about the topics covered, and the presentation is mostly clear and concise ... the text is complemented and expanded by numerous well-chosen exercises." Physics Today

This book, aimed at the very best students, presents the foundations and frontiers of today's physics. It focuses on the following topics: quantum mechanics; applications in atomic, nuclear, particle, and condensed-matter physics; special relativity; relativistic quantum mechanics, including the Dirac equation and Feynman diagrams; quantum fields; and general relativity. The aim is to cover these topics in sufficient depth such that things "make sense" to students and they can achieve an elementary working knowledge of them. Many problems are included, a great number of which take dedicated readers just as far as they want to go in modern physics. Although the book is designed so that one can, in principle, read and follow the text without doing any of the problems, the reader is urged to attempt as many of them as possible. Several appendices help bring the reader up to speed on any additional required mathematics.

496pp	Jul 2008		
978-981-281-224-7	US\$128	£106	
978-981-281-225-4(pbk)	US\$73	£61	



orldSci

Essential Textbooks in Physics Introduction to General Relativity and Cosmology by Christian G Böhmer (University College London, UK)

Introduction to General Relativity and Cosmology gives undergraduate students an overview of the fundamental ideas behind the geometric theory of gravitation and spacetime. Through pointers on how to modify and generalise Einstein's theory to enhance understanding, it provides a link between standard textbook content and current research in the field.

Chapters present complicated material practically and concisely, initially dealing with the mathematical foundations of the theory of relativity, in particular differential geometry. This is followed by a discussion of the Einstein field equations and their various properties. Also given is analysis of the important Schwarzschild solutions, followed by application of general relativity to cosmology. Questions with fully worked answers are provided at the end of each chapter to aid comprehension and guide learning. This pared down textbook is specifically designed for new students looking for a workable, simple presentation of some of the key theories in modern physics and mathematics.

288pp	Dec 2016	
978-1-78634-117-4	US\$70	£58
978-1-78634-118-1(pbk)	US\$38	£32

Harvard Lectures

Lectures of Sidney Coleman on Quantum Field Theory Foreword by David Kaiser

edited by **Bryan Gin-ge Chen** (Leiden University, Netherlands), **David Derbes** (University of Chicago, USA), **David Griffiths** (Reed College, USA), **Brian Hill** (Saint Mary's College of California, USA), **Richard Sohn** (Kronos, Inc., Lowell, USA) & **Yuan-Sen Ting** (Harvard)

"Sidney Coleman's Field Theory lectures at Harvard were a staple of every particle physicist Harvard graduate student's education ... the ideas — like all good physics concepts — have survived the decades beautifully. In a labor of love and educational devotion, a team of former students and TAs teamed up with professors and experts to share his legacy in perpetuity." Lisa Randall. Harvard

"Sidney Coleman was the master teacher of quantum field theory. All of us who knew him became his students and disciples. Sidney's legendary course remains fresh and bracing, because he chose his topics with a sure feel for the essential, and treated them with elegant economy."

Frank Wilczek, Nobel Laureate in Physics 2004

1000pp	Dec 2018	
978-981-4632-53-9	US\$168	£150
978-981-4635-50-9(pbk)	US\$88	£75

Quantum Mechanics

Application-Driven Quantum and Statistical Physics

A Short Course for Future Scientists and Engineers Volume 1: Foundations Volume 2: Equilibriums By: Jean-Michel Gillet (CentraleSupélec,

By: **Jean-Michel Gillet** (CentraleSupèlec, Paris-Saclay University, France)

This pedagogical approach relies heavily on scientific or technological applications from a wide range of fields. For every new concept introduced, an application is given to connect the theoretical results to a real-life situation. Each volume features in-text exercises and detailed solutions, with easy-to-understand applications.

Volume 1:

300pp	Nov 2018	В	
978-1-78634-554-7	US\$98	£86	
978-1-78634-690-2(pbk)	US\$45	£35	
Volume 2:			

336ppDec 2018978-1-78634-557-8US\$98978-1-78634-703-9(pbk)US\$45

Principles of Quantum Computation and Information

A Comprehensive Textbook

By (author): Giuliano Benenti (Università degli Studi dell'Insubria, Italy), Giulio Casati (Università degli Studi dell'Insubria, Italy), Davide Rossini (Università di Pisa, Italy) & Giuliano Strini (Università di Milano, Italy)

"Thorough introductions to classical computation and irreversibility, and a primer of quantum theory,

lead into the heart of this impressive and substantial book. All the topics quantum algorithms, quantum error correction, adiabatic quantum computing and decoherence are just a few — are explained carefully and in detail. Particularly attractive are the connections between the conceptual structures and mathematical formalisms, and the different experimental protocols for bringing them to practice. A more wide-ranging, comprehensive, and definite text is hard to imagine." Michael Berry University of Bristol, UK

£86

£40

650pp	Feb 2019	
978-981-3237-22-3	US\$158	£139

Time-Dependent Quantum Mechanics of Two-Level Systems

by James P Lavine (Georgetown University, USA)

The book builds upon an undergraduate course in quantum mechanics and is useful for readers interested in magnetic resonance and quantum optics. In addition, this book is ideal for self-study by students or researchers starting on two-level systems. The detailed derivations and plots should ease readers into the study of two-level systems in a wide variety of settings.

256pp	Nov 2018	
978-981-3272-58-3	US\$98	£85

Introductory Quantum Physics and Relativity (2nd Edition)

by Jacob Dunningham (University of Sussex, UK) & Vlatko Vedral (Oxford)

308pp	May 2018	
978-981-3228-64-1	US\$98	£86
978-981-3230-04-0(pbk)	US\$48	£42







Six Quantum Pieces

A First Course in Quantum Physics by Valerio Scarani (National University of Singapore, Singapore), Lynn Chua (NUS High School of Mathematics and Science, Singapore) & Shi Yang Liu (NUS High School of Mathematics and Science, Singapore)

Quantum physics is known to be challenging for two reasons: it describes counter-intuitive phenomena and employs rather advanced mathematics. The description of "traditional" quantum phenomena



The

Structure and

Evolution of Stars

(the structure of atoms and molecules, the properties of solids, the zoology of sub-atomic particles) does indeed involve the whole formalism. However, some other striking phenomena, somehow the most "typically quantum" ones, can be described using only high school mathematical skills. This approach exploits this fact, thus making it possible for a beginner to tackle mindboggling experiments like teleportation and the violation of Bell's inequalities, and practice notions like superposition, entanglement and decoherence.

160pp	Sep 2010	
978-981-4327-53-4	US\$51	£42
978-981-4327-54-1(pbk)	US\$25	£21

Astronomy / Astrophysics / Relativity

The Structure and Evolution of Stars

by J J Eldridge (University of Auckland, New Zealand) & Christopher A Tout (University of Cambridge, UK)

The structure of a star can be described mathematically by differential equations derived from the principles of hydrodynamics, electromagnetic theory, thermodynamics, quantum mechanics, atomic and nuclear physics. The basic equations of a spherical star are derived in detail at an accessible



360pp	Feb 2019	
978-1-78326-579-4	US\$98	£85

Introduction to General Relativity

Solutions to Problems

by **John Dirk Walecka** (College of William and Mary, USA)

216рр	Aug 2017		
978-981-3227-69-9(pbk)	US\$48	£42	

World Scientific Series in Astrophysics

Star Formation

by **Mark R Krumholz** (Australian National University, Australia)

"Krumholz has a strong writing style, didactic to be sure, but also fairly conversational within the limits of the material. While hardly casual reading, this text would be a good resource for a stellar astrophysicist, or any individual seeking to become one."

528pp	Jun 2017	
978-981-3142-02-2	US\$128	£113
978-981-3142-03-9(pbk)	US\$88	£77



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New & Classic TEXTBOOKS for Physics Undergraduates

An Intoduction to Particle Dark Matter

by **Stefano Profumo** (UC Santa Cruz & Santa Cruz Institute for Particle Physics, USA)

The paradigm of dark matter is one of the key developments at the interface of cosmology and elementary particle physics. It is also one of the foundations of the standard cosmological model. This book presents the state of the art in building and testing particle models for dark matter. Each chapter gives an analysis of questions, research

directions, and methods within the field. More than 200 problems are included to challenge and stimulate the reader's knowledge and provide guidance in the practical implementation of the numerous "tools of the trade" presented. Appendices summarize the basics of cosmology and particle physics needed for any quantitative understanding of particle models for dark matter.

This interdisciplinary textbook is essential reading for anyone interested in the microscopic nature of dark matter as it manifests itself in particle physics experiments, cosmological observations, and high-energy astrophysical phenomena: from graduate students and advanced undergraduates to cosmologists and astrophysicists interested in particle models for dark matter and particle physicists interested in early-universe cosmology and high-energy astrophysics.

288pp	Apr 2017	
978-1-78634-000-9	US\$94	£78
978-1-78634-001-6(pbk)	US\$46	£38

General Physics

Basic Physics by Kenneth W Ford

Many teachers will value this book as a personal reference during a teaching year as various topics are addressed. Ford's discussions of the history and meaning of topics from Newton's mechanics to Feynman's diagrams, although written first in 1968, have beautifully withstood the test of time and are fully relevant to 21st-century physics teaching.

Readership: University students, course lecturers, teaching assistants, university curriculum planners.

852pp	Jan 2017
978-981-3208-00-1	US\$130
978-981-3208-01-8(pbk)	US\$48

Classical Mechanics

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Essential Classical Mechanics

Problems and Solutions

by **Choonkyu Lee** (Seoul National University, South Korea) & **Hyunsoo Min** (University of Seoul, South Korea)

Various mechanical concepts are developed in a highly logical manner, with relatively thorough treatments on mathematical procedures and many physically interesting applications.

Essential Classical Mechanics

764pp	Jun 2018
978-981-3234-64-2	US\$148

Essential Classical Mechanics

Problems and Solutions	
508рр	Sep 2018
978-981-3236-69-1	US\$168



Essential Textbooks in Physics Newtonian Mechanics for Undergraduates

by Vijay Tymms (Imperial College London, UK)

Using carefully chosen and detailed examples to expose areas of frequent misunderstanding, the first two thirds of the book introduces material familiar to high school students from the ground up, with a more mature point of view. The final third of the book contains new material, introducing detailed sections



on the rotation of rigid objects and providing an insight into subtleties that can be troubling to the first-time learner. Tabletop physics demonstrations are suggested to assist in understanding the worked examples.

268pp	Jan 2016	
978-1-78634-007-8	US\$75	£62
978-1-78634-008-5(pbk)	US\$38	£32

Lectures on Classical Mechanics

by Berthold-Georg Englert (NUS, Singapore)

This book offers comprehensive as well as selfcontained material that can be taught in a onesemester course for students with the minimal background knowledge acquired in preuniversity education or in the usual first-year overview. The presentation does not skip the technical details which renders the book particularly well-suited for the self-studying student.



An Introduction

to Lagrangian Mechanics

376pp	Apr 2015	
978-981-4678-44-5	US\$99	£82
978-981-4678-45-2(pbk)	US\$48	£40

An Introduction to Lagrangian Mechanics (2nd Edition)

by Alain J Brizard (Saint Michael)s College, USA)

"This book provides a very interesting presentation of ideas and methods from classical mechanics. It is reasonably self-contained, and should also be regarded as recommended reading both for the novice and the expert in theoretical mechanics. Brizard's book is a valuable contribution to the considered subject."



324pp	Jan 2015	5
978-981-4623-61-2	US\$98	£81
978-981-4623-62-9(pbk)	US\$58	£48

Fundamental Principles of Classical Mechanics

A Geometrical Perspective by **Kai S Lam** (California State Polytechnic University, Pomona, USA)

592pp	Sep 2014	
978-981-4551-48-9	US\$96	£80

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Choonkyu Lee • Hyunsoo Min CSSCNTIAL CLASSICAL MCCHANICS





S.Y. Lee

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Physics

Tourth Edition

Nuclear Physics / Particle Physics

Accelerator Physics (4th Edition)

by Lee Shyh-Yuan (Indiana University, USA)

Reviews of the previous editions:

"The large number of formulas and the excellent table of contents and index make the book a very useful addition to the library of a scientist or engineer already in the field."

568pp	Nov 2018	
978-981-3274-67-9	US\$138 £120	
978-981-3274-78-5(pbk)	US\$78 £70	

Concepts in Particle Physics

A Concise Introduction to the Standard Model by V Parameswaran Nair (City College of the City University of New York, USA)

328pp Jan 2018 US\$98 978-981-3227-55-2

£86

Physics Today

Supersymmetric Quantum Mechanics (2nd Edition)

An Introduction

by Asim Gangopadhyaya, Jeffry Mallow & Constantin Rasinariu (Loyola University Chicago, USA)

Reviews of the First Edition:

"This work is appropriate for anyone with a solid background in upper-division undergraduate mathematics and physics ... The problems, which

are scattered throughout the chapters, were very well chosen."

296рр	Dec 201	7	
978-981-3221-03-1	US\$98	£81	
978-981-3221-04-8(pbk)	US\$48	£40	

Nuclear Radiation Interactions

by Sidney Yip (MIT)

This book is a treatment on the foundational knowledge of Nuclear Science and Engineering. It is an outgrowth of a first-year graduate-level course which the author has taught over the years in the Department of Nuclear Science and Engineering at MIT.

386pp	Dec 2014	
978-981-4368-07-0	US\$118	£98
978-981-3144-53-8(pbk)	US\$58	£48

Principles of Fusion Energy

An Introduction to Fusion Energy for Students of Science and Engineering

by A A Harms (McMaster University, Canada), D R Kingdon (McMaster University, Canada), K F Schoepf (University of Innsbruck, Austria) & G H Miley (University of Illinois, Urbana-Champaign, USA)

"This textbook provides a useful summary of the relevant physics and an objective overview of the possible systems that could allow and contain thermonuclear fusion." **CERN Courier**

308pp	Jun 2000	
978-981-02-4335-7	US\$63	£52
978-981-238-033-3(pbk)	US\$36	£30

NUCLEAR RADIATION **INTERACTIONS**

CHOICE

Supersymmetric **Quantum Mechanics**



The Standard Model and Bevond

by J D Vergados (University of Ioannina, Greece)

452pp	Oct 2017	
978-981-3228-55-9	US\$98	£86
978-981-3275-77-5(pbk)	US\$58	£50

Electromagnetism / Optics / Laser

Introduction to Electricity and Magnetism

by John Dirk Walecka (College of William and Mary, USA)

These lectures provide an introduction to a subject that together with classical mechanics, quantum mechanics, and modern physics lies at the heart of today's physics curriculum. This introduction to electricity and magnetism, aimed at the very best students, assumes only a good course in calculus, and familiarity with vectors and Newton's laws; it is



otherwise self-contained. Furthermore, these lectures, although relatively concise, take one from Coulomb's law to Maxwell's equations and special relativity in a lucid and logical fashion.

272рр	Oct 2018	3
978-981-3272-06-4	US\$88	£75
978-981-3273-10-8(pbk)	US\$48	£40

Classical Theory of Electromagnetism (3rd Edition)

by Baldassare Di Bartolo (Boston College, USA)

The text is self-contained and oriented toward the student. It is concise and yet very detailed in mathematical calculations; the equations are explicitly derived, which is of great help to students and allows them to concentrate more on the physics concepts, rather than spending too much time on mathematical derivations.



US\$98 978-981-3230-03-3(pbk) £86

Lasers for Scientists and Engineers

by L Wilmer Anderson & John B Boffard (University of Wisconsin-Madison, USA)

412pp	Aug 2017	
978-981-3224-28-5	US\$98	£86
978-981-3224-29-2(pbk)	US\$58	£50

Quantum Optics for Experimentalists

by Zheyu Jeff Ou (Indiana Universitv -Purdue University Indianapolis, USA)

This book on quantum optics is from the point of view of an experimentalist. It approaches the theory of quantum optics with the language of optical modes of classical wave theory, with which experimentalists are most familiar. This approach makes the transition easy from classical optics to quantum optics. The emphasis on the multimode description of an optical system is more realistic



than in most quantum optics textbooks. After the theoretical part, the book goes directly to the two most basic experimental techniques in quantum optics and establishes the connection between the experiments and the theory. The applications include some key quantum optics experiments, and a few more current interests that deal with quantum correlation and entanglement, quantum noise in phase measurement and amplification, and quantum state measurement.

432pp	Jul 2017		
978-981-3220-19-5	US\$128	£113	
978-981-3220-20-1(pbk)	US\$68	£60	



New & Classic TEXTBOOKS for Physics Undergraduates

A Modern Course in University Physics

Optics, Thermal Physics, Modern Physics by **Fuxiang Han** (*Dalian University of Technology, China*)

This is a calculus-based textbook on general physics. It contains all the major subjects covered in an intermediate or advanced course on general physics. Through coherent and humorous elucidation of physics principles, this book makes learning general physics a fun and interesting activity.

668pp 978-981-3226-18-0 Jun 2017 US\$118 £104

Mathematical Physics

Classical Mechanics and Electrodynamics

by Jon Magne Leinaas (University of Oslo, Norway)

The text is illustrated with many figures, most of these in color. There are many useful examples and exercises which complement the derivations in the text.

364pp	Feb 2019	
978-981-3279-36-0	US\$98	£85
978-981-3279-98-8(pbk)	US\$58	£50

Solution Manual

108pp Mar 2019 978-981-120-070-0(pbk) US\$30 £25

Essential Textbooks in Physics

A Guide to Mathematical Methods for Physicists

With Problems and Solutions by Michela Petrini (Université Pierre et Marie

Curie, France), Gianfranco Pradisi (University of Rome Tor Vergata, Italy) & Alberto Zaffaroni (University of Milano-Bicocca, Italy)

The text is illustrated with many figures, most of these in color. There are many useful examples and exercises which complement the derivations in the text.

340рр	Sep 2017	
978-1-78634-343-7	US\$98	£81
978-1-78634-344-4(pbk)	US\$48	£40

Path Integrals for Pedestrians

by Ennio Gozzi (University of Trieste, Italy & INFN, Trieste, Italy), Enrico Cattaruzza (INFN, Trieste, Italy) & Carlo Pagani (INFN, Trieste, Italy & University of Mainz, Germany)

"This short book provides a clear, pedagogical and insightful presentation of the subject. An interesting innovation in this book is that the authors provide a clear presentation of the path integral formulation of the Wigner functions, which are fundamental in the study of quantum statistical mechanics; and, for the

first time in an elementary book, the work of Koopman and von Neumann on classical and statistical mechanics. It will be difficult to find a better and more compact introduction to this fundamental subject."

CERN Courier

estrians

Path Integrals

156pp	Jan 2016	
978-981-4603-92-8	US\$58	£48
978-981-4603-93-5(pbk)	US\$34	£28



CLASSICAL MECHANICS

AND ELECTRODYNAMICS

Condensed Matter Physics

Introduction to Soft Matter Physics

by Luwei Zhou (Fudan University, China)

The subject of soft matter physics is still in its infancy, making it highly exciting and attractive. If you like a challenging subject, you will most certainly fall in love with soft matter physics at first read!

320pp	Mar 2019	
978-981-3275-09-6	US\$98	£85

Introductory Matter Physics

by **Francesco Simoni** (Università Politecnica delle Marche, Italy)

This book is based on the lectures given by the author for over a decade on Matter Physics and Solid State Physics. It focuses on electronic properties to discuss the structure, electrical and optical properties of matter, and is organized into six chapters.

480pp Oct 2018 978-981-3235-71-7 US\$118 £105

Theoretical Alchemy

Modeling Matter

by Walter Harrison (Stanford University, USA)

"Harrison's treatment in the present book is pithy and distinctive, distilling a lifetime of research and reflection in a pointed, engaging discussion in eight chapters and several appendixes. Extensive references and a useful index round out the book. The work is well suited for chemistry and physics students at several levels. Its creative treatment may even engage an interested general reader." CHOICE



212рр	Sep 2010	
978-981-4322-13-3	US\$68	£56
978-981-4322-14-0(pbk)	US\$28	£23

The Physics of Solar Cells

by Jenny Nelson (Imperial College, UK)

"This book is more encyclopedic, with clear figures and broad scope. It does a good job of clarifying the fundamental issues and is a less advanced text. It is, therefore, probably more approachable and more useful to the general reader."

Physics Today

 384pp
 May 2

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May 2003 US\$104 £86 US\$58 £48



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Mathematics for Physics

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Elementary Particle Physics

by Martinus Veltman (University of Michigan, Ann Arbor, USA & NIKHEF, Amsterdam,

An Introduction to the Standard

Model of Particle Physics for the

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FRONTIER PROBLEMS IN

QUANTUM

MECHANICS







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Facts and Mysteries

Problems and Solutions in Special Relativity and Electromagnetism

by Sergei Kruchinin (Bogolyubov Institute for Theoretical Physics, Ukraine)

148pp	Sep 2017	
978-981-3227-26-2	US\$68	£60
978-981-3227-27-9(pbk)	US\$38	£33

Introduction to Statistical Mechanics

Solutions to Problems by John Dirk Walecka (College of William and Mary, USA)

244pp	Oct 2016	
978-981-3149-98-4	US\$58	£48
978-981-3148-13-0(pbk)	US\$28	£23

Advanced Quantum Mechanics (2nd Edition)

by Freeman Dyson (IAS, Princeton) Translated by: David Derbes (Laboratory Schools, University of Chicago, USA)

316pp		Nov 2011	
	978-981-4383-40-0	US\$98	£81
	978-981-4383-41-7(pbk)	US\$42	£35

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Topology and Physics

edited by Chen Ning Yang (Tsinghua University, China), Mo-Lin Ge (Nankai University, China) & Yang-Hui He (City University of London, UK)

220pp	Jan 2019	
978-981-3278-49-3	US\$88	£75
978-981-3278-50-9(pbk)	US\$36	£30

Frontier Problems in Quantum Mechanics

by Lee Chang (Tsinghua University, China) & Molin Ge (Nankai University, China)

1092pp	Oct 2018	
978-981-3146-84-6	US\$198	£164

Introduction to Solid State **Physics**

by Amnon Aharony (Ben Gurion University of the Negev, Israel & Tel Aviv University, Israel) & Ora Entin-Wohlman (Ben Gurion University of the Negev, Israel & Tel Aviv University, Israel)

Oct 2018	
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Optoelectronic Devices

by Niloy K Dutta & Xiang Zhang (University of Connecticut, USA)

588pp Aug 2018 978-981-3236-69-1 US\$168 £148

164pp 978-981-3232-58-7

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