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Four concise, brilliant lectures
on mathematical methods in

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quantum mechanics from Nobel Prize-winning quantum pioneer build on idea of visualizing quantum theory through the use of classical mechanics.

2012 Reprint of 1955 Edition.

Exact facsimile of the original

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edition, not reproduced with Optical Recognition Software. Dirac is widely regarded as one of the world's greatest physicists. He was one of the founders of quantum mechanics and quantum electrodynamics.

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His early contributions include the modern operator calculus for quantum mechanics, which he called transformation theory, and an early version of the path integral. His relativistic wave equation for the electron was the

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first successful attack on the problem of relativistic quantum mechanics. Dirac founded quantum field theory with his reinterpretation of the Dirac equation as a many-body equation, which predicted the

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existence of antimatter and matter-antimatter annihilation. He was the first to formulate quantum electrodynamics, although he could not calculate arbitrary quantities because the short distance limit requires

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renormalization. Dirac discovered the magnetic monopole solutions, the first topological configuration in physics, and used them to give the modern explanation of charge quantization. He

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developed constrained quantization in the 1960s, identifying the general quantum rules for arbitrary classical systems. These lectures were given delivered and published during his tenure at Princeton's

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Institute for Advanced Study in
the 1930's.

A fully updated edition of the
classic text by acclaimed
physicist A. Zee Since it was first
published, Quantum Field Theory
in a Nutshell has quickly

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established itself as the most accessible and comprehensive introduction to this profound and deeply fascinating area of theoretical physics. Now in this fully revised and expanded edition, A. Zee covers the latest

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advances while providing a solid conceptual foundation for students to build on, making this the most up-to-date and modern textbook on quantum field theory available. This expanded edition features several additional

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chapters, as well as an entirely new section describing recent developments in quantum field theory such as gravitational waves, the helicity spinor formalism, on-shell gluon scattering, recursion relations

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for amplitudes with complex momenta, and the hidden connection between Yang-Mills theory and Einstein gravity. Zee also provides added exercises, explanations, and examples, as well as detailed appendices,

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solutions to selected exercises,
and suggestions for further
reading. The most accessible
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fully revised, updated, and
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Notes on Lectures on Elementary
Quantum Mechanics

Quantum Field Theory: Lectures
of Sidney Coleman

Six Easy Pieces

Quantum Field Theory in a
Nutshell

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1. Hilbert Space The words "Hilbert space" here will always denote what mathematicians call a separable Hilbert space. It is composed of vectors each with a denumerable infinity of coordinates q_1, q_2, q_3, \dots . Usually the coordinates are considered to be complex

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numbers and each vector has a squared length $\sim \sum |q_r|^2$. This squared length must converge in order that the q 's may specify a Hilbert vector. Let us express q_r in terms of real and imaginary parts, $q_r = X_r + iY_r$. Then the squared length is $\sum (X_r^2 + Y_r^2)$. The x 's and y 's may be

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looked upon as the coordinates of a vector. It is again a Hilbert vector, but it is a real Hilbert vector, with only real coordinates. Thus a complex Hilbert vector uniquely determines a real Hilbert vector. The second vector has, at first sight, twice as many coordinates as the

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first one. But twice a denumerable in finity is again a denumerable infinity, so the second vector has the same number of coordinates as the first. Thus a complex Hilbert vector is not a more general kind of quantity than a real one. Three-part treatment covers background

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material on definitions, terminology, operators in Hilbert space domains of representations, operators in the enveloping algebra, spectral theory; and covariant representation and connections. 2017 edition.

Perspectives in Computation covers three

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Lectures on quantum field theory

Feynman Lectures On Gravitation

Lectures

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Quantum Mechanics

Quantum State Estimation

**From the bestselling author of
The Theoretical Minimum, a DIY
introduction to the math and
science of quantum physics
First he taught you classical**

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mechanics. Now, physicist Leonard Susskind has teamed up with data engineer Art Friedman to present the theory and associated mathematics of the strange world of quantum mechanics. In this follow-up to

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**The Theoretical Minimum,
Susskind and Friedman provide
a lively introduction to this
famously difficult field, which
attempts to understand the
behavior of sub-atomic objects
through mathematical**

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abstractions. Unlike other popularizations that shy away from quantum mechanics' weirdness, Quantum Mechanics embraces the utter strangeness of quantum logic. The authors offer crystal-clear explanations

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of the principles of quantum states, uncertainty and time dependence, entanglement, and particle and wave states, among other topics, and each chapter includes exercises to ensure mastery of each area. Like The

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Theoretical Minimum, this volume runs parallel to Susskind's eponymous Stanford University-hosted continuing education course. An approachable yet rigorous introduction to a famously

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**difficult topic, Quantum
Mechanics provides a tool kit for
amateur scientists to learn
physics at their own pace.
A concise, modern textbook on
group theory written especially
for physicists Although group**

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**theory is a mathematical subject,
it is indispensable to many areas
of modern theoretical physics,
from atomic physics to
condensed matter physics,
particle physics to string theory.
In particular, it is essential for an**

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**understanding of the
fundamental forces. Yet until
now, what has been missing is a
modern, accessible, and self-
contained textbook on the
subject written especially for
physicists. Group Theory in a**

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Nutshell for Physicists fills this gap, providing a user-friendly and classroom-tested text that focuses on those aspects of group theory physicists most need to know. From the basic intuitive notion of a group, A.

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Zee takes readers all the way up to how theories based on gauge groups could unify three of the four fundamental forces. He also includes a concise review of the linear algebra needed for group theory, making the book ideal for

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**self-study. Provides physicists
with a modern and accessible
introduction to group theory
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include finite group and character tables; real, pseudoreal, and complex representations; Weyl, Dirac, and Majorana equations; the expanding universe and group theory; grand unification; and

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textbook for students and an
invaluable resource for
researchers Features a brief,
self-contained treatment of
linear algebra An online
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conceptual breakthroughs in
twentieth century physics are
relativity and quantum
mechanics. Developing a theory**

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seamlessly is a difficult and
ongoing challenge. This
accessible book contains
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theme by the distinguished
physicists Richard Feynman and**

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Steven Weinberg. Richard Feynman's contribution examines the nature of antiparticles, and in particular the relationship between quantum spin and statistics. In his essay, Steven Weinberg

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speculates on how Einstein's theory of gravitation might be reconciled with quantum theory in the final laws of physics. Both these Nobel laureates have made huge contributions to fundamental research in

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**physics, as well as to the
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Mechanics Courier
Corporation

This book is a
comprehensive survey of
most of the theoretical
and experimental
achievements in the field

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of quantum estimation of
states and operations.
Albeit still quite young,
this field has already
been recognized as a
necessary tool for
research in quantum optics

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and quantum information,
beyond being a fascinating
subject in its own right
since it touches upon the
conceptual foundations of
quantum mechanics. The
book consists of twelve

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extensive lectures that are essentially self-contained and modular, allowing combination of various chapters as a basis for advanced courses and seminars on

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theoretical or experimental aspects. The last two chapters, for instance, form a self-contained exposition on quantum discrimination problems. The book will

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benefit graduate students
and newcomers to the field
as a high-level but
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authoritative source of
reference.

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California at Los Angeles
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Berthold-Georg Englert and
constitute both a self-
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of twentieth century
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Theory
Unification of Fundamental
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Four concise, brilliant lectures on mathematical methods by the Nobel Laureate and quantum pioneer begin with an introduction to visualizing quantum theory through the use of

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classical mechanics. The remaining lectures build on that idea, examining the possibility of building a relativistic quantum theory on curved surfaces or flat surfaces.

Mathematical Physics is an introduction to such basic mathematical structures as groups, vector spaces, topological

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spaces, measure spaces, and Hilbert space. Geroch uses category theory to emphasize both the interrelationships among different structures and the unity of mathematics. Perhaps the most valuable feature of the book is the illuminating intuitive discussion of the "whys" of proofs and of axioms and

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definitions. This book, based on Geroch's University of Chicago course, will be especially helpful to those working in theoretical physics, including such areas as relativity, particle physics, and astrophysics. Landmark lectures (1909) by Nobel Prize winner deal with application of

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**quantum hypothesis to blackbody
radiation, principle of least action,
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edition.**

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**The Principles of Quantum Mechanics
Eight Lectures on Theoretical Physics**

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An accessible, comprehensive
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mechanics and field theory. In surveying available books on advanced quantum mechanics and field theory, Franz Gross determined that while established books were outdated, newer titles tended

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to focus on recent developments and disregard the basics. Relativistic Quantum Mechanics and Field Theory fills this striking gap in the field. With a strong emphasis on applications to

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practical problems as well as calculations, Dr. Gross provides complete, up-to-date coverage of both elementary and advanced topics essential for a well-rounded understanding of the field.

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Developing the material at a level accessible even to newcomers to quantum mechanics, the book begins with topics that every physicist should know - quantization of the

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electromagnetic field,
relativistic one body wave
equations, and the theoretical
explanation of atomic decay.
Subsequent chapters prepare
readers for advanced work,
covering such major topics as

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gauge theories, path integral techniques, spontaneous symmetry breaking, and an introduction to QCD, chiral symmetry, and the Standard Model. A special chapter is devoted to relativistic bound

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state wave equations-an important topic that is often overlooked in other books. Clear and concise throughout, Relativistic Quantum Mechanics and Field Theory boasts examples from atomic

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and nuclear physics as well as particle physics, and includes appendices with background material. It is an essential reference for anyone working in quantum mechanics today.

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A unique insight into Dirac's life and work, by four internationally respected physicists.

Describes the relation between classical and quantum mechanics. This

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Directions in Physics

Physics from Symmetry

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Students

Nobel Laureate discusses quantum
theory, uncertainty, wave mechanics,

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work of Dirac, Schroedinger, Compton, Einstein, others. "An authoritative statement of Heisenberg's views on this aspect of the quantum theory." — Nature. This book is based on a graduate course on relativity given by Sidney Coleman at Harvard during the 1960s.

"The standard work in the fundamental

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principles of quantum mechanics, indispensable both to the advanced student and to the mature research worker, who will always find it a fresh source of knowledge and stimulation." --Nature "This is the classic text on quantum mechanics. No graduate student of quantum theory should leave it

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unread"--W.C Schieve, University of
Texas

Elementary Quantum Mechanics; Notes
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Advanced Quantum Mechanics

The Physical Principles of the Quantum
Theory

The Theoretical Minimum

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The Origin and Development of the
Quantum Theory

Renowned physicist and
mathematician Freeman Dyson is
famous for his work in quantum
mechanics, nuclear weapons policy
and bold visions for the future of
humanity. In the 1940s, he was

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responsible for demonstrating the equivalence of the two formulations of quantum electrodynamics OCo Richard Feynman's diagrammatic path integral formulation and the variational methods developed by Julian Schwinger and Sin-Itiro Tomonoga OCo showing the

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mathematical consistency of QED.

This invaluable volume comprises the legendary lectures on quantum electrodynamics first given by Dyson at Cornell University in 1951. The late theorist Edwin Thompson Jaynes once remarked, OC For a generation of physicists they were the happy

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medium: clearer and better motivated than Feynman, and getting to the point faster than Schwinger. This edition has been printed on the 60th anniversary of the Cornell lectures, and includes a foreword by science historian David Kaiser, as well as notes from Dyson's

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lectures at the Les Houches Summer School of Theoretical Physics in 1954. The Les Houches lectures, described as a supplement to the original Cornell notes, provide a more detailed look at field theory, a careful and rigorous derivation of Fermi's Golden Rule, and a masterful

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treatment of renormalization and Ward's Identity. Future generations of physicists are bound to read these lectures with pleasure, benefiting from the lucid style that is so characteristic of Dyson's exposition. Sidney Coleman (1937–2007) earned his doctorate at Caltech under Murray

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Gell-Mann. Before completing his thesis, he was hired by Harvard and remained there his entire career. A celebrated particle theorist, he is perhaps best known for his brilliant lectures, given at Harvard and in a series of summer school courses at Erice, Sicily. Three times in the 1960s

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he taught a graduate course on Special and General Relativity; this book is based on lecture notes taken by three of his students and compiled by the Editors.

"Nobel Laureate Steven Weinberg combines his exceptional physical insight with his gift for clear

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exposition to provide a concise introduction to modern quantum mechanics. Ideally suited to a one-year graduate course, this textbook is also a useful reference for researchers. Readers are introduced to the subject through a review of the history of quantum mechanics and an

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account of classic solutions of the Schrödinger equation, before quantum mechanics is developed in a modern Hilbert space approach. The textbook covers many topics not often found in other books on the subject, including alternatives to the Copenhagen interpretation, Bloch

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waves and band structure, the Wigner-Eckart theorem, magic numbers, isospin symmetry, the Dirac theory of constrained canonical systems, general scattering theory, the optical theorem, the 'in-in' formalism, the Berry phase, Landau levels, entanglement and quantum

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computing. Problems are included at the ends of chapters, with solutions available for instructors at www.cambridge.org/9781107028722--

Elementary Quantum Mechanics
Relativistic Quantum Mechanics and
Field Theory
Symbolism of Atomic Measurements

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Second Edition

Lectures Delivered During a Visit to
Australia and New Zealand
August/September 1975

The Feynman Lectures on
Gravitation are based on notes
prepared during a course on

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gravitational physics that Richard Feynman taught at Caltech during the 1962-63 academic year. For several years prior to these lectures, Feynman thought long and hard about the fundamental problems in gravitational physics,

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yet he published very little. These lectures represent a useful record of his viewpoints and some of his insights into gravity and its application to cosmology, superstars, wormholes, and gravitational waves at that

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particular time. The lectures also contain a number of fascinating digressions and asides on the foundations of physics and other issues. Characteristically, Feynman took an untraditional non-geometric approach to gravitation and general

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relativity based on the underlying quantum aspects of gravity. Hence, these lectures contain a unique pedagogical account of the development of Einstein's general theory of relativity as the inevitable result of the demand for a self-

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consistent theory of a massless spin-2 field (the graviton) coupled to the energy-momentum tensor of matter. This approach also demonstrates the intimate and fundamental connection between gauge invariance and the principle

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The six easiest chapters from Feynman's celebrated lectures on physics, which the Nobel Prize-winning scientist delivered from 1961 to 1963 at the California Institute of Technology, have been

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reprinted in this volume.

Paul Adrian Maurice Dirac, one of the greatest physicists of the twentieth century, died in 1984. His college, St John's College, Cambridge, generously endowed annual lectures to be held at

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Cambridge University in his
memory. This 1990 volume
includes an expanded version of
the third Dirac Memorial Lecture
presented by Abdus Salam.

The Man and His Work
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symmetry. It starts by
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*completely self-
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mathematical tools
needed to use symmetry
ideas in physics.
Thereafter, these tools
are put into action and*

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*by using symmetry
constraints, the
fundamental equations of
Quantum Mechanics,
Quantum Field Theory,
Electromagnetism, and
Classical Mechanics are*

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*derived. As a result,
the reader is able to
understand the basic
assumptions behind, and
the connections between
the modern theories of
physics. The book*

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concludes with first applications of the previously derived equations. Thanks to the input of readers from around the world, this second edition has been

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*purged of typographical
errors and also contains
several revised sections
with improved
explanations.*

*Lectures on Quantum
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