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of
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thermodynamics
from first
principles will
find this third
edition
indispensable.
Andrew Rex is
professor of
physics at the
University of
Puget Sound in

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Tacoma,
Washington. He
is author of
several
textbooks and
the popular
science book,
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in Physics.
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The authors discuss the experiments that led to key discoveries in order to illustrate the process behind scientific advances and to give students a historical

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perspective. The text features a flexible organization that allows instructors to select and teach topics in a preferred sequence without compromising

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the student's learning experience. A sound theoretical foundation in quantum theory is included to help physics majors succeed in their upper division courses.

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physics has
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physics has
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range of*

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the large-
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history of the
entire
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there are*

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comprehensive
book provides
the most
complete
coverage of
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relativity and

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detailed*

*discussions on
the historical
origins of
topics. Its
presentation
is*

*consistently
linked to
observation,
and to the*

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physical numbers as well, so that readers develop a sense of the magnitudes involved in the material being covered. Chapter topics include waves

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*as particles
and particles
as waves;
atoms and the
Bohr Model;
The
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Equation;
barriers and
wells;
statistical
physics;*

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and supercondu
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and Engineers*

The present text is an outgrowth of such a laboratory course given by the author at the University of Rochester

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between 1959 and 1963. It consisted of a one-year course with two 3-hour meetings in the laboratory and two 1-hour lecture meetings weekly; the students had access to the

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laboratory at all times and, in general, worked during hours of their own choice well in excess of the scheduled periods. The students worked in pairs, which in most cases provides a

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highly motivating and successful relationship. The material included in this course was selected from those experiments in atomic and nuclear physics that have laid

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the foundation and provided the evidence for modern quantum theory. The experiments were set up in such a fashion that they could be completed in a two- to four-week period of normal work

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taking into account the other demands on the student's time.

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process behind
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the authors
discuss the
experiments
that led to key
discoveries
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is included to
help physics

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the foundations and
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A Modern Introduction

Page 53/132

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differential equations, and systems of nonlinear equations. Throughout the text, valuable pedagogical features support learning and teaching. Each chapter concludes with a summary of important concepts, and figures and tables are provided to help students visualize or summarize concepts. The book also includes

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examples and updated
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biology, chemistry, and
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engage students

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and numerical methods
early to build
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a large number of exercises from biology, chemistry, economics, physics and engineering
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difficulty; to acquaint the student with new mathematical techniques and provide sufficient practice in solving problems; and to impart to the student some degree of sophistication in handling both the formalism of the theory and the operational technique of problem solving. Vector methods

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are developed in the first two chapters and are used throughout the book. Other chapters cover the fundamentals of Newtonian mechanics, the special theory of relativity, gravitational attraction and potentials, oscillatory motion, Lagrangian and Hamiltonian dynamics, central-force motion,

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two-particle collisions,
and the wave equation.

An Introduction to the
Theory of Relativity and
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in the last decade,
being widely used in
academic and
industrial research.
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Chemistry:

Introduction to the
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Molecular and

Quantum Mechanics

is an invaluable tool

for teaching and

researchers alike. The

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book provides an
overview of the field,

explains the basic
underlying theory at a
meaningful level that
is not beyond

beginners, and it gives
numerous

comparisons of
different methods with
one another and with
experiment. The

following concepts are

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illustrated and their possibilities and limitations are given: - potential energy surfaces; - simple and extended Hückel methods; - ab initio, AM1 and related semiempirical methods; - density functional theory (DFT). Topics are placed in a historical

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context, adding interest to them and removing much of their apparently arbitrary aspect. The large number of references, to all significant topics mentioned, should make this book useful not only to undergraduates but also to graduate

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students and academic
and industrial
researchers.

Inspired by Richard
Feynman and J.J.
Sakurai, A Modern
Approach to Quantum
Mechanics allows
lecturers to expose
their undergraduates
to Feynman's
approach to quantum
mechanics while

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simultaneously giving them a textbook that is well-ordered, logical and pedagogically sound. This book covers all the topics that are typically presented in a standard upper-level course in quantum mechanics, but its teaching approach is new. Rather than

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organizing his book according to the historical development of the field and jumping into a mathematical discussion of wave mechanics, Townsend begins his book with the quantum mechanics of spin. Thus, the first five chapters of the book

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succeed in laying out
the fundamentals of
quantum mechanics
with little or no wave
mechanics, so the
physics is not
obscured by
mathematics. Starting
with spin systems it
gives students
straightfoward
examples of the
structure of quantum

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mechanics. When wave mechanics is introduced later, students should perceive it correctly as only one aspect of quantum mechanics and not the core of the subject.

Collaboration on the First Edition of Spacetime Physics began in the

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mid-1960s when
Edwin Taylor took a
junior faculty
sabbatical at Princeton
University where John
Wheeler was a
professor. The
resulting text
emphasized the unity
of spacetime and those
quantities (such as
proper time, proper
distance, mass) that

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are invariant, the same for all observers, rather than those quantities (such as space and time separations) that are relative, different for different observers.

The book has become a standard introduction to relativity. The Second Edition of Spacetime

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of exercises, for which the First Edition was famous. Enrichment boxes provide expanded coverage of intriguing topics. An enlarged final chapter on general relativity includes new material on gravity waves, black holes, and cosmology. The Second Edition of

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Spacetime Physics provides a new generation of readers with a deep and simple overview of the principles of relativity.

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*This book uses
elementary
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mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

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formulation of
the new
quantum
theory, while
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chapters go
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equations that
arise are
converted into
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equations by
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of the
derivatives or
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method. MATLAB
programs are
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a particle in
a finite well
and the simple
harmonic
oscillator and
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equation for
hydrogen. The
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solutions of
these problems

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are plotted
using MATLAB
and the
physical
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of these
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*the needs of the
struggling student.*

*An investigation into
the strange and
troublesome
relationship to pleasure
that defines the human
being, drawing on the
disparate perspectives
of Deleuze and Lacan.
Is pleasure a rotten
idea, mired in
negativity and lack,*

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*which should be
abandoned in favor of
a new concept of
desire? Or is desire
itself fundamentally a
matter of lack,
absence, and loss? This
is one of the crucial
issues dividing the
work of Gilles Deleuze
and Jacques Lacan,
two of the most
formidable figures of*

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postwar French thought. Though the encounter with psychoanalysis deeply marked Deleuze's work, we are yet to have a critical account of the very different postures he adopted toward psychoanalysis, and especially Lacanian theory, throughout his career.

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*In The Trouble with
Pleasure, Aaron*

*Schuster tackles this
tangled relationship
head on. The result is
neither a Lacanian
reading of Deleuze nor
a Deleuzian reading of
Lacan but rather a
systematic and
comparative analysis
that identifies concerns
common to both*

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