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As a market leader,
PHYSICS FOR
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ENGINEERS is one
of the most powerful

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brands in the
physics market.

However, rather
than resting on that
reputation, the new
edition of this text
marks a significant
advance in the
already excellent
quality of the book.
While preserving
concise language,
state of the art

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educational
pedagogy, and top-
notch worked
examples, the
Eighth Edition
features a unified art
design as well as
streamlined and
carefully
reorganized
problem sets that
enhance the
thoughtful

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instruction for which
Raymond A. Serway
and John W. Jewett,
Jr. earned their
reputations.

Likewise, PHYSICS
FOR SCIENTISTS
AND ENGINEERS,
will continue to
accompany
Enhanced
WebAssign in the
most integrated text-

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technology offering available today. In an environment where new Physics texts have appeared with challenging and novel means to teach students, this book exceeds all modern standards of education from the most solid foundation in the

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Physics market
today.

COLLEGE

PHYSICS provides students with a clear and logical presentation of the basic concepts and principles of physics. The authors include a broad range of contemporary

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applications to motivate students understanding of how physics works in the real world. In addition, new pedagogy, reflecting the findings of physics education research, has been added to help students improve their problem

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solving skills and conceptual understanding. The innovative technology program is perfectly tailored to support any course design. All end-of-chapter problems, worked examples, and quick quizzes are available in

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WebAssign
(enhanced with
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allowing instructors
to securely create
and administer
homework
assignments in an
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environment. For
instructors utilizing
classroom response
technology, a

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complete suite of questions, pre-formatted in PowerPoint, is available to support the JoinIn on TurningPoint interactive lecture solution, or the clicker software of your choosing. For students planning on taking the MCAT

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exam, a new appendix provides detailed conceptual and quantitative explanations of key examination areas, as well as additional MCAT-styled questions and answers for additional practice. This text, which covers the standard

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topics in classical physics and 20th century physics, is divided into six parts. Newtonian mechanics and the physics of fluids (Part I); heat and thermodynamics (Part II); wave motion and sound (Part III); electricity and magnetism

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(Part IV); properties of light and the field of geometric and wave optics (Part V); and an introduction to special relativity, quantum physics, and atomic and nuclear physics (Part VI). Important Notice: Media content referenced

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This manual contains solutions to all odd-numbered problems in the text. This book arms engineers with the tools to apply key physics concepts in

the field. A number of the key figures in the new edition are revised to provide a more inviting and informative treatment. The figures are broken into component parts with supporting commentary so that they can more

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readily see the key ideas. Material from The Flying Circus is incorporated into the chapter opener puzzlers, sample problems, examples and end-of-chapter problems to make the subject more engaging.

Checkpoints enable them to check their

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understanding of a question with some reasoning based on the narrative or sample problem they just read.

Sample Problems also demonstrate how engineers can solve problems with reasoned solutions.

**INCLUDES PARTS
1-4 PART 5 IN**

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FUNDAMENTALS
OF PHYSICS,
EXTENDED

Student Solutions
Manual, Volume 2,
Intl. Edition for
Serway/Vuille's
College Physics,
International Edition,
9th

College Physics
(With Physicsnow)
Design of Fluid

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Thermal Systems
(Freedom LI
Version)
Volume 1 of
COLLEGE
PHYSICS, 11th
Edition, is
comprised of
the first 14
chapters of
Serway/Vuille's
proven
textbook.

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throughout to
help students
master physical
concepts,
improve their
problem-solving
skills, and
enrich their
understanding
of the world
around them,
the text's

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logical
presentation of
physical
concepts, a
consistent
strategy for
solving
problems, and
an unparalleled
array of worked
examples help
students
develop a true

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understanding
of physics.

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enhanced by a
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presentation,
new problems,
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Vignettes, new
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techniques, and

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hundreds of new
and revised
problems.

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the ebook
version.

This 5" by 7"
paperback is a
section-by-
section capsule
of the textbook
that provides a
handy guide for
looking up
important
concepts,
equations, and

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problem-solving
hints.

University
Physics is
designed for
the two- or
three-semester
calculus-based
physics course.
The text has
been developed
to meet the
scope and

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sequence of
most university
physics courses
and provides a
foundation for
a career in
mathematics,
science, or
engineering.
The book
provides an
important
opportunity for

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students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the

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material, we
are offering
the book in
three volumes
for flexibility
and efficiency.
Coverage and
Scope Our
University
Physics
textbook
adheres to the
scope and

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sequence of
most two- and
three-semester
physics courses
nationwide. We
have worked to
make physics
interesting and
accessible to
students while
maintaining the
mathematical
rigor inherent

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in the subject.
With this
objective in
mind, the
content of this
textbook has
been developed
and arranged to
provide a
logical
progression
from
fundamental to

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more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of

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each section is
to enable
students not
just to
recognize
concepts, but
to work with
them in ways
that will be
useful in later
courses and
future careers.
The

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organization
and pedagogical

features were
developed and
vetted with
feedback from
science

educators
dedicated to
the project.

VOLUME I Unit
1: Mechanics
Chapter 1:

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Units and
Measurement

Chapter 2:

Vectors Chapter

3: Motion Along
a Straight Line

Chapter 4:

Motion in Two
and Three

Dimensions

Chapter 5:

Newton's Laws
of Motion

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Chapter 6:
Applications of
Newton's Laws
Chapter 7: Work
and Kinetic
Energy Chapter
8: Potential
Energy and
Conservation of
Energy Chapter
9: Linear
Momentum and
Collisions

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Chapter 10:

Fixed-Axis

Rotation

Chapter 11:

Angular

Momentum

Chapter 12:

Static

Equilibrium and

Elasticity

Chapter 13:

Gravitation

Chapter 14:

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Fluid Mechanics
Unit 2: Waves
and Acoustics
Chapter 15:
Oscillations
Chapter 16:
Waves Chapter
17: Sound
The perfect way
to prepare for
exams, build
problem-solving
skills, and get

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the grade you
want! For
Chapters 1-22,
this manual
contains
detailed
solutions to
approximately
20% of the
problems per
chapter
(indicated in
the textbook

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with boxed
problem
numbers). The
manual also
features a
skills section,
important notes
from key
sections of the
text, and a
list of
important
equations and

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concepts.

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Essentials of
College Physics
College
Physics, Volume
2
Enhanced
College Physics
AP TCHR GDE
COLLEGE PHYSICS
9E

***While physics can
seem challenging,
its true quality is***

***the sheer
simplicity of
fundamental
physical
theories--theories
and concepts that
can enrich your
view of the world
around you.***

**COLLEGE
PHYSICS, Ninth
Edition, provides a
clear strategy for**

connecting those theories to a consistent problem-solving approach, carefully reinforcing this methodology throughout the text and connecting it to real-world examples. For

***students planning
to take the MCAT
exam, the text
includes exclusive
test prep and
review tools to
help you prepare.
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Edition Solutions
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**ESSENTIALS OF
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***PHYSICS provides
a clear and logical
presentation of the
basic concepts
and principles of
physics without
sacrificing any of
the problem-
solving support or***

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**conceptual
understanding you
will need. The
powerful and
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an online resource
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study time by
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whiteboard for
displaying
presentation
materials, and
instant messaging
for easy**

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with your personal
tutor.**

**Understand both
the key concepts
and modern
developments
within the global
food and beverage
service industry
with this new
edition of the
internationally**

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***respected text. An
invaluable
reference for
trainers,
practitioners and
anyone working
towards
professional
qualifications in
food and beverage
service, this new
edition has been
thoroughly***

***updated to include
a greater focus on
the international
nature of the
hospitality
industry. In
addition to offering
broad and in-depth
coverage of
concepts, skills
and knowledge, it
explores how
modern trends and***

technological developments have impacted on food and beverage service globally. - Covers all of the essential industry knowledge, from personal skills, service areas and equipment, menus and menu knowledge,

**beverages and
service
techniques, to
specialised forms
of service, events
and supervisory
aspects - Supports
a range of
professional food
and beverage
service
qualifications,
including**

***foundation
degrees or
undergraduate
programmes in
restaurant, hotel,
leisure or event
management, as
well as in-
company training
programmes - Aids
visual learners
with over 200
photographs and***

***illustrations
demonstrating
current service
conventions and
techniques
This book is
designed to serve
senior-level
engineering
students taking a
capstone design
course in fluid and
thermal systems***

design. It is built from the ground up with the needs and interests of practicing engineers in mind; the emphasis is on practical applications. The book begins with a discussion of design methodology,

including the process of bidding to obtain a project, and project management techniques. The text continues with an introductory overview of fluid thermal systems (a pump and pumping system, a household air

***conditioner, a
baseboard heater,
a water slide, and
a vacuum cleaner
are among the
examples given),
and a review of the
properties of fluids
and the equations
of fluid mechanics.
The text then
offers an in-depth
discussion of***

***pipng systems,
including the
economics of pipe
size selection.
Janna examines
pumps (including
net positive
suction head
considerations)
and piping
systems. He
provides the
reader with the***

ability to design an entire system for moving fluids that is efficient and cost-effective.

Next, the book provides a review of basic heat transfer principles, and the analysis of heat exchangers, including double pipe, shell and

***tube, plate and
frame cross flow
heat exchangers.
Design
considerations for
these exchangers
are also
discussed. The
text concludes
with a chapter of
term projects that
may be undertaken
by teams of***

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students.

Quantum Legacies

Student Solutions

Manual for Serway/

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Modern Physics,

3rd

Physics for

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classic text,
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Scientists and
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students and

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highlights the
relevance of
this
discipline to
their learning
and lives.

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Questions?
Missed

Lectures? Not
Enough Time?
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website

While physics
can seem
challenging,
its true
quality is the
sheer
simplicity of
fundamental
physical theor
ies—theories
and concepts

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that can
enrich your
view of the
world around
you. COLLEGE
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International
Edition
provides a
clear strategy
for connecting
those theories

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consistent pro
blem-solving
approach,
carefully
reinforcing
this
methodology
throughout the
text and
connecting it
to real-world

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examples. For students planning to take the MCAT exam, the text includes exclusive test prep and review tools to help you prepare. The ideal

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science,

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books is the
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authors walk
readers
through coming
up with

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exercises in
their topic of
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Noncalculus

Physics,

Advanced

Placement H.S.

Physics

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College
Physics

Dispatches

from an

Uncertain

World

Schaum's

Outline of

College

Physics, 11th

Edition

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sequence requirements
for two- and three-
semester calculus-
based physics courses.
Volume 1 covers
mechanics, sound,
oscillations, and
waves. This textbook
emphasizes
connections between
theory and
application, making
physics concepts

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interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result." --Open

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Textbook Library.

Volume 2 of

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PHYSICS, Eleventh

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of chapters 15-30 of

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proven textbook.

Designed throughout

to help students

master physical

concepts, improve

their problem-solving

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skills, and enrich their understanding of the world around them, the text's logical presentation of concepts, a consistent strategy for solving problems, and an unparalleled array of worked examples help students develop a true understanding of physics. Volume 2 is

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enhanced by a streamlined presentation, new problems, Interactive Video Vignettes, new conceptual questions, new techniques, and hundreds of new and revised problems.

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you need to

understand the natural
forces and principles
of physics.

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chapter, the authors
have built in a wide
range of examples,
exercises, and
illustrations that will
help you understand
the laws of physics

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AND succeed in your
course! Important

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Manual and Study
Guide, Sixth Edition

Schaum's Outline of
College Physics,
Twelfth Edition

Modern Physics

**"Physicists have
grappled with
quantum theory
for over a
century. They
have learned to
wring precise
answers from**

**the theory's
governing
equations, and
no experiment
to date has
found
compelling
evidence to
contradict it.
Even so, the
conceptual
apparatus**

**remains
stubbornly,
famously
bizarre.
Physicists have
tackled these
conceptual
uncertainties
while navigating
still larger ones:
the rise of
fascism,**

**cataclysmic
world wars and
a new nuclear
age, an unsteady
Cold War stand-
off and its
unexpected end.
Quantum
Legacies
introduces
readers to
physics' still-**

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**unfolding quest
by treating
iconic moments
of discovery and
debate among
well-known
figures like
Albert Einstein,
Erwin
Schrödinger,
and Stephen
Hawking, and**

**many others
whose
contributions
have indelibly
shaped our
understanding
of nature"--
Achieve success
in your physics
course by using
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based,**

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Serway's best-
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FOR
SCIENTISTS
AND
ENGINEERS,
Eighth Edition,
which includes
access to
Enhanced**

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**WebAssign with
a built-in e-
Book.**

**For Chapters
15-30, this
manual contains
detailed
solutions to
approximately
12 problems per
chapter. These
problems are**

**indicated in the
textbook with
boxed problem
numbers. The
manual also
features a skills
section,
important notes
from key
sections of the
text, and a list
of important**

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**equations and
concepts.**

**College Physics
A Calculus
Approach
Physics for
Scientists and
Engineers,
Volume 1
Study Guide
with Student
Solutions**

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circular
motion,
equilibrium,
energy,
momentum,
gravitation,
elasticity,
vibration,
fluids, sound,
heat,
electricity, el

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optics,
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nuclear
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includes
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designed to

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**engage students
in their
exploration of
physics and
help them apply
these concepts
to the Advanced
Placement (R)
test. This book
is Learning
List-approved
for AP (R)
Physics**

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calculus-based
physics course.
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been developed**

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to meet the
scope and
sequence of
most university
physics courses
and provides a
foundation for
a career in
mathematics,
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physics and
understand how
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physics courses
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have worked to
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interesting and
accessible to
students while
maintaining the

mathematical
rigor inherent
in the subject.
With this
objective in
mind, the
content of this
textbook has
been developed
and arranged to
provide a
logical
progression

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from
fundamental to
more advanced
concepts,
building upon
what students
have already
learned and
emphasizing
connections
between topics
and between
theory and

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applications.
The goal of
each section is
to enable
students not
just to
recognize
concepts, but
to work with
them in ways
that will be
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Chapter 4:

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Unit 2: Modern

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5: Relativity

Chapter 6:

Photons and

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with boxed
problem
numbers. The
manual also
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list of
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that will help
you understand
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physics AND*

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indefinitely in
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Chapters 1-17

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