

University Physics 14th Edition Young Hugh

This book will
strengthen a
student's grasp of
the laws of physics
by applying them to
practical situations,

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university-physics-14th-edition-young-hugh

and problems that yield more easily to intuitive insight than brute-force methods and complex mathematics. These intriguing problems, chosen almost exclusively from classical (non-quantum) physics, are posed in accessible non-

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technical language
requiring the
student to select
the right framework
in which to analyse
the situation and
decide which
branches of physics
are involved. The
level of
sophistication
needed to tackle
most of the two
hundred problems

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is that of the exceptional school student, the good undergraduate, or competent graduate student. The book will be valuable to undergraduates preparing for 'general physics' papers. It is hoped that even some physics professors will find the more

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difficult questions
challenging. By
contrast,
mathematical
demands are
minimal, and do not
go beyond
elementary
calculus. This
intriguing book of
physics problems
should prove
instructive,
challenging and fun.

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This package includes a physical copy of Essential University Physics, 2/e by Richard Wolfson as well as access to the eText and MasteringPhysics. Richard Wolfson's Essential University Physics, Second Edition is a concise and progressive

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calculus-based
physics textbook
that offers clear
writing, great
problems, and
relevant real-life
applications. This
text is a compelling
and affordable
alternative for
professors who
want to focus on
the fundamentals
and bring physics to

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life for their students. Essential University Physics focuses on the fundamentals of physics, teaches sound problem-solving skills, emphasizes conceptual understanding, and makes connections to the real world. The presentation is

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concise without sacrificing a solid introduction to calculus-based physics. New pedagogical elements have been introduced that incorporate proven results from physics education research. Features such as annotated figures and step-by-

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step problem-solving strategies help students master concepts and solve problems with confidence. The Second Edition features dramatically revised and updated end-of-chapter problem sets, significant content updates, new Conceptual

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Examples, and additional Applications, all of which serve to foster student understanding and interest. Essential University Physics is offered as two paperback volumes, available shrink-wrapped together, or for sale individually. Used

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by over a million science students, the Mastering platform is the most effective and widely used online tutorial, homework, and assessment system for the sciences.

For Students:
MasteringPhysics tutorials guide students through the toughest topics

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in physics with self-paced tutorials that provide individualized coaching. Helps students make connections to the real world using interactive research-based simulations from the PhET Group at University of Colorado - Boulder. Offers a

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comprehensive
library of tried and
tested
ActivePhysics
applets is designed
to encourage
students to confront
misconceptions,
reason qualitatively,
experiment
quantitatively, and
learn to think
critically. For
Lecturers: Identify

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how your students are doing before the first exam: the color-coded gradebook instantly identifies students in trouble and challenging topics for your class as a whole.

The College Physics for AP(R) Courses text is designed to engage

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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 courses. The text and images in this book are grayscale.

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University Physics
with Modern
Physics,
Technology Update,
Thirteenth Edition
continues to set the
benchmark for
clarity and rigor
combined with
effective teaching
and research-based
innovation. The
Thirteenth Edition
Technology Update

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contains QR codes throughout the textbook, enabling you to use your smartphone or tablet to instantly watch interactive videos about relevant demonstrations or problem-solving strategies.

University Physics is known for its

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uniquely broad,
deep, and thoughtful
set of worked
examples-key tools
for developing both
physical
understanding and
problem-solving
skills. The
Thirteenth Edition
revises all the
Examples and
Problem-solving
Strategies to be

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more concise and direct while maintaining the Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help you tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging

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Problems to each chapter, which pose a difficult, multiconcept problem and provide a skeleton solution guide in the form of questions and hints. The text's rich problem sets-developed and refined over six decades-are upgraded to include

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larger numbers of problems that are biomedically oriented or require calculus. The problem-set revision is driven by detailed student-performance data gathered nationally through MasteringPhysics® , making it possible to fine-tune the

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reliability,
effectiveness, and
difficulty of
individual problems.
Complementing the
clear and accessible
text, the figures use
a simple graphic
style that focuses
on the physics.
They also
incorporate
explanatory
annotations--a

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technique
demonstrated to
enhance learning.

This package
consists of:

University Physics
with Modern
Physics Technology
Update, Volume 3
(Chapters 37-44),
Thirteenth Edition
University Physics
with Modern
Physics Technology

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Update, (Chs.
37-44)
Chemistry
Occupational
Outlook Handbook
Modern Physics
The Instant New
York Times
Bestseller and
TikTok
Sensation! As
seen on THE
VIEW! A

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BuzzFeed Best
Summer Read of
2021 When a
fake
relationship
between
scientists
meets the
irresistible
force of
attraction, it
throws one
woman's

Page 26/202

carefully
calculated
theories on
love into
chaos. As a
third-year
Ph.D.
candidate,
Olive Smith
doesn't believe
in lasting
romantic relati
onships--but

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her best friend
does, and
that's what got
her into this
situation.

Convincing Anh
that Olive is
dating and well
on her way to a
happily ever
after was
always going to
take more than

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hand-wavy Jedi
mind tricks:
Scientists
require proof.
So, like any
self-respecting
biologist,
Olive panics
and kisses the
first man she
sees. That man
is none other
than Adam

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Carlsen, a
young hotshot
professor--and
well-known ass.
Which is why
Olive is
positively
floored when
Stanford's
reigning lab
tyrant agrees
to keep her
charade a

Page 30/202

secret and be
her fake
boyfriend. But
when a big
science
conference goes
haywire,
putting Olive's
career on the
Bunsen burner,
Adam surprises
her again with
his unyielding

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support and
even more unyielding...six-
pack abs.
Suddenly their
little
experiment
feels
dangerously
close to
combustion. And
Olive discovers
that the only

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thing more
complicated
than a
hypothesis on
love is putting
her own heart
under the
microscope.

KEY BENEFIT:

For more than
five decades,
Sears and
Zemansky's

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College Physics
has provided
the most
reliable
foundation of
physics
education for
readers around
the world. For
the Eighth
Edition, Robert
Geller joins
Hugh Young to

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produce a
comprehensive
update of this
benchmark text.
A broad and
thorough
introduction to
physics, this
new edition
carefully
integrates many
solutions from
educational

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research to
help readers to
develop greater
confidence in
solving
problems,
deeper
conceptual
understanding,
and stronger qu
antitative-
reasoning
skills, while

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helping them
connect what
they learn with
their other
courses and the
changing world
around them.

KEY TOPICS:

Models,
Measurements,
and Vectors,
Motion along a
Straight Line,

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Motion in a
Plane, Newton's
Laws of Motion,
Applications of
Newton's Laws,
Circular Motion
and
Gravitation,
Work and
Energy,
Momentum,
Rotational
Motion,

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Dynamics of
Rotational
Motion,
Elasticity and
Periodic
Motion,
Mechanical
Waves and
Sound, Fluid
Mechanics,
Temperature and
Heat, Thermal
Properties of

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Matter, The
Second Law of
Thermodynamics,
Electric
Charges, Forces
and Fields,
Electric
Potential and
Electric
Energy,
Electric
Current and
Direct-Current

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Circuits,
Magnetism,
Magnetic Flux
and Faraday's
Law of
Induction,
Alternating
Currents,
Electromagnetic
Waves,
Geometric
Optics, Optical
Instruments,

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Interference
and
Diffraction,
Relativity,
Photons,
Electrons, and
Atoms, Atoms,
Molecules, and
Solids, 30
Nuclear and
High-Energy
Physics For all
readers

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interested in
most reliable
foundation of
physics
education.
University
Physics with
Modern Physics,
Technology
Update,
Thirteenth
Edition
continues to

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set the
benchmark for
clarity and
rigor combined
with effective
teaching and
research-based
innovation. The
Thirteenth
Edition
Technology
Update contains
QR codes

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throughout the
textbook,
enabling you to
use your
smartphone or
tablet to
instantly watch
interactive
videos about
relevant
demonstrations
or problem-
solving

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strategies.
University
Physics is
known for its
uniquely broad,
deep, and
thoughtful set
of worked
examples-key
tools for
developing both
physical
understanding

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and problem-solving skills. The Thirteenth Edition revises all the Examples and Problem-solving Strategies to be more concise and direct while maintaining the Twelfth

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Edition's
consistent,
structured
approach and
strong focus on
modeling as
well as math.
To help you
tackle
challenging as
well as routine
problems, the
Thirteenth

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Edition adds
Bridging
Problems to
each chapter,
which pose a
difficult,
multiconcept
problem and
provide a
skeleton
solution guide
in the form of
questions and

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require
calculus. The
problem-set
revision is
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detailed student-
performance
data gathered
nationally
through Masteri
ngPhysics®,
making it
possible to

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fine-tune the reliability, effectiveness, and difficulty of individual problems.

Complementing the clear and accessible text, the figures use a simple graphic style that

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focuses on the physics. They also incorporate explanatory annotations--a technique demonstrated to enhance learning. This package consists of:

Univeristy

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Physics with
Modern Physics
Technology
Update, Volume
2 (Chapters
21-27),
Thirteenth
Edition
University
Physics
provides an
authoritative
treatment of

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physics. This
book discusses
the linear
motion with
constant
acceleration;
addition and
subtraction of
vectors;
uniform
circular motion
and simple
harmonic

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motion; and
electrostatic
energy of a
charged
capacitor. The
behavior of
materials in a
non-uniform
magnetic field;
application of
Kirchhoff's
junction rule;
Lorentz transfo

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rmations; and
Bernoulli's
equation are
also
deliberated.
This text
likewise covers
the speed of
electromagnetic
waves; origins
of quantum
physics;
neutron

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activation
analysis; and
interference of
light. This
publication is
beneficial to
physics,
engineering,
and mathematics
students
intending to
acquire a
general

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knowledge of
physical laws
and
conservation
principles.
With Modern
Physics
Medical
Statistics
Calculus: Early
Transcendentals
The Love
Hypothesis

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Fundamentals of
Mechanics is Volume 1
of six-volume Calculus-
based University Physics
series, designed to meet
the requirements of a
two-semester course
sequence of
introductory physics for
physics, chemistry, and
engineering majors. The
present volume focuses
on building a good
foundation in kinematics

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and dynamics. The emphasis is placed on understanding basic concepts of kinematics and equilibrium conditions of forces well before handling more difficult subject of dynamics. Concepts and ideas are developed starting from fundamental principles whenever possible and illustrated by numerical

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and symbolic problems. Detailed guided exercises and challenging problems help students develop their problem solving skills. The complete University Physics series (Volumes 1-6) covers topics in Mechanics, Gravitation, Waves, Sound, Fluids, Thermodynamics, Electricity, Magnetism,

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Optics, and Modern Physics. Appropriate volumes can be selected to provide students a solid foundation of introductory physics and make their transition into advanced courses easier. Volume 1: Fundamentals of Mechanics - Vectors, Kinematics, Newton's Laws of Motion, Impulse, Energy,

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Rotation, Physics in
Non-inertial Frames.
Volume 2: Applications
of Mechanics -
Newton's Law of
Gravitation, Simple
Harmonic Motion,
Mechanical Waves,
Sound, Stress and Strain
in Materials, Fluid
Pressure, Fluid
Dynamics. Volume 3:
Thermodynamics -
Heat, Temperature,

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Specific Heat, Thermal Expansion, Ideal Gas Law, First Law of Thermodynamics, Work by Gas, Second Law of Thermodynamics, Heat Engine, Carnot Cycle, Entropy, Kinetic Theory, Maxwell's Velocity Distribution. Volume 4: Electricity and Magnetism - Static Electricity, Coulomb's Law, Electric Field,

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Gauss's Law, Electric Potential, Metals and Dielectrics, Magnets, Magnetic Force, Steady Current, Magnetic Field, Ampere's Law, Kirchhoff's Rules, Electrodynamics, Faraday's Law, Maxwell's Equations, AC Circuits. Volume 5: Optics - Law of Reflection, Snell's Law of Refraction, Optical

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Elements, Optical
Instruments, Wave
Optics, Interference,
Young's Double Slit,
Michelson
Interferometer, Fabry-
Perot Interferometer,
Huygens-Fresnel
Principle, Diffraction.
Volume 6: Modern
Physics - Relativity,
Quantum Mechanics,
Material Science,
Nuclear Physics,

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Fundamental Particles,
Gravity, and
Cosmology.

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version of the textbook
gives you the flexibility
to take only what you
need to class and add
your own notes -- all at
an affordable price. For
loose-leaf editions that
include MyLab(tm) or
Mastering(tm), several

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UNIVERSITY
PHYSICS VOLUME 1
, Loose-Leaf Edition

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contains Chapters 1-20.
Practice makes perfect:
Guided practice helps
students develop into
expert problem solvers
Practice makes perfect.
The new 15th Edition of
University Physics with
Modern Physics draws
on a wealth of data
insights from hundreds
of faculty and thousands
of student users to
address one of the

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biggest challenges for students in introductory physics courses: seeing patterns and making connections between problem types. Students learn to recognize when to use similar steps in solving the same problem type and develop an understanding for problem solving approaches, rather than

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simply plugging in an equation. This new edition addresses students' tendency to focus on the objects, situations, numbers, and questions posed in a problem, rather than recognizing the underlying principle or the problem's type. New Key Concept statements at the end of worked examples

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address this challenge by identifying the main idea used in the solution to help students recognize the underlying concepts and strategy for the given problem. New Key Example Variation Problems appear within new Guided Practice sections and group problems by type to give students practice

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recognizing when problems can be solved in a similar way, regardless of wording or numbers. These scaffolded problem sets help students see patterns, make connections between problems, and build confidence for tackling different problem types when exam time comes. The fully integrated

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problem-solving approach in Mastering Physics gives students instructional support and just-in-time remediation as they work through problems, and links all end-of-chapter problems directly to the eText for additional guidance. Also available with Mastering Physics By combining trusted

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textbook, worked
examples, and more.

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Physics , ask your
instructor for the correct
package ISBN and

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Course ID. Instructors, contact your Pearson representative for more information. If you would like to purchase both the loose-leaf version of the text with all chapters (1-44) and Mastering Physics, search for: 0135205891 / 9780135205891 University Physics with Modern Physics, Loose-Leaf Plus Mastering

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University Physics with
Modern Physics, Loose-
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Leaf Edition

University Physics is designed for the two- or three-semester calculus-based physics course.

The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an

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important opportunity for 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 material, we are offering the book in three volumes for flexibility and efficiency.

Coverage and Scope

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Our University Physics textbook adheres to the scope and 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 in the subject. With this objective in mind, the content of this

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textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section

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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 organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME I Unit 1:

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Mechanics Chapter 1:
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 Chapter 6:
Applications of
Newton's Laws Chapter
7: Work and Kinetic
Energy Chapter 8:

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Potential Energy and
Conservation of Energy
Chapter 9: Linear
Momentum and
Collisions Chapter 10:
Fixed-Axis Rotation
Chapter 11: Angular
Momentum Chapter 12:
Static Equilibrium and
Elasticity Chapter 13:
Gravitation Chapter 14:
Fluid Mechanics Unit 2:
Waves and Acoustics
Chapter 15: Oscillations

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Chapter 16: Waves

Chapter 17: Sound

"The fourteenth edition continues a long tradition of providing a firm foundation in the concepts of chemical principles while instilling an appreciation of the important role chemistry plays in our daily lives. We believe that it is our responsibility to assist

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both instructors and students in their pursuit of this goal by presenting a broad range of chemical topics in a logical format. At all times, we strive to balance theory and application and to illustrate principles with applicable examples whenever possible"--
Sears & Zemansky's
University Physics with

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Modern Physics,
Technology Update
Fundamentals of
Mechanics
College Physics for
AP® Courses
200 Puzzling Physics
Problems
For more than five
decades, Sears and
Zemansky's College
Physics has provided the
most reliable foundation
of physics education for

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students around the world. The Ninth Edition continues that tradition with new features that directly address the demands on today ' s student and today ' s classroom. A broad and thorough introduction to physics, this new edition maintains its highly respected, traditional approach while implementing some new

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solutions to student difficulties. Many ideas stemming from educational research help students develop greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills, while helping them connect what they learn with their other courses and the

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changing world around them. Math review has been expanded to encompass a full chapter, complete with end-of-chapter questions, and in each chapter biomedical applications and problems have been added along with a set of MCAT-style passage problems. Media resources have been strengthened and linked

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to the Pearson eText,
MasteringPhysics® , and
much more. This package
contains: College
Physics, Ninth Edition
One of the most
successful calculus books
of its generation, Jon
Rogawski ' s Calculus
balances formal precision
with conceptual focus.
Full of useful features, it
helps students build
computational skills

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while reinforcing the relevance of calculus to their studies. When writing the book, the author team strove to ensure it's clearly written, can be read by a calculus student and would motivate them to engage in the material and learn more. The textbook uses exposition, graphics, and layout would to enhance all facets of a student ' s

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calculus experience. Bob Franzosa joins the author team for this new 4th edition, bringing deep experience and knowledge of teaching calculus at undergraduate level. Extra applications have been added in climate, life and earth sciences to better bring the maths to life.

This edition features the exact same content as the

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traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value for your students--this format costs 35% less than a new textbook. University Physics with Modern Physics, Technology Update, Thirteenth Edition continues to set the benchmark for clarity

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and rigor combined with effective teaching and research-based innovation. The Thirteenth Edition Technology Update contains QR codes throughout the textbook, enabling you to use your smartphone or tablet to instantly watch interactive videos about relevant demonstrations or problem-solving

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strategies. University Physics is known for its uniquely broad, deep, and thoughtful set of worked examples--key tools for developing both physical understanding and problem-solving skills. The Thirteenth Edition revises all the Examples and Problem-solving Strategies to be more concise and direct while maintaining the

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Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help you tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging Problems to each chapter, which pose a difficult, multiconcept problem and provide a skeleton solution guide in the form of questions

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MasteringPhysics®,

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Complementing the clear and accessible text, the figures use a simple graphic style that focuses on the physics. They also incorporate explanatory annotations—a technique demonstrated to enhance learning. This package

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consists of: Books a la
Carte for University
Physics with Modern
Physics Technology
Update, Thirteenth
Edition

NOTE: This loose-leaf,
three-hole punched
version of the textbook
gives you the flexibility to
take only what you need
to class and add your
own notes - all at an
affordable price. For

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loose-leaf editions that include MyLab(tm) or Mastering(tm), several versions may exist for each title and registrations are not transferable. You may need a Course ID, provided by your instructor, to register for and use MyLab or Mastering products. For courses in calculus-based physics. UNIVERSITY

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PHYSICS VOLUME 2 ,
Loose-Leaf Edition
contains Chapters 21-37.
Practice makes perfect:
Guided practice helps
students develop into
expert problem solvers
Practice makes perfect.
The new 15th Edition of
University Physics with
Modern Physics draws
on a wealth of data
insights from hundreds
of faculty and thousands

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of student users to address one of the biggest challenges for students in introductory physics courses: seeing patterns and making connections between problem types. Students learn to recognize when to use similar steps in solving the same problem type and develop an understanding for problem solving

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approach in Mastering Physics gives students instructional support and just-in-time remediation as they work through problems, and links all end-of-chapter problems directly to the eText for additional guidance. Also available with Mastering Physics By combining trusted author content with digital tools and a flexible platform,

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Mastering personalizes the learning experience and improves results for each student. Now providing a fully integrated experience, the eText is linked to every problem within Mastering for seamless integration between homework problems, practice problems, textbook, worked examples, and more.

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University Physics with
Modern Physics, Loose-
Leaf Edition
Sears and Zemansky's
University Physics

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Essential University

Physics

Thomas' Calculus

College Physics

One of the field's most respected introductory texts, *Modern Physics* provides a deep exploration of fundamental theory and experimentation.

Appropriate for second-year undergraduate science and engineering

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students, this esteemed text presents a comprehensive introduction to the concepts and methods that form the basis of modern physics, including examinations of relativity, quantum physics, statistical physics, nuclear physics, high energy physics, astrophysics, and cosmology. A

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balanced pedagogical approach examines major concepts first from a historical perspective, then through a modern lens using relevant experimental evidence and discussion of recent developments in the field. The emphasis on the interrelationship of principles and methods provides continuity,

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creating an accessible "storyline" for students to follow. Extensive pedagogical tools aid in comprehension, encouraging students to think critically and strengthen their ability to apply conceptual knowledge to practical applications. Numerous exercises and worked examples reinforce fundamental principles.

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University Physics with
MasteringPhysics(R),
Thirteenth Edition
continues to set the
benchmark for clarity
and rigor combined with
effective teaching and
research-based
innovation. University
Physics is known for its
uniquely broad, deep,
and thoughtful set of
worked examples-key
tools for developing

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both physical understanding and problem-solving skills. The Thirteenth Edition revises all the Examples and Problem-Solving Strategies to be more concise and direct while maintaining the Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help students

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tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging Problems to each chapter, which pose a difficult, multiconcept problem and provide a skeleton solution guide in the form of questions and hints. The text's rich problem sets-developed and refined over six decades-are upgraded to

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include larger numbers of problems that are biomedically oriented or require calculus. The problem-set revision is driven by detailed student-performance data gathered nationally through MasteringPhysics, making it possible to fine-tune the reliability, effectiveness, and difficulty of individual

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problems.

Complementing the clear and accessible text, the figures use a simple graphic style that focuses on the physics. They also incorporate explanatory annotations—a technique demonstrated to enhance learning. This text is available with MasteringPhysics—the most widely used,

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educationally proven,
and technically
advanced tutorial and
homework system in the
world. This package
contains: University
Physics, Thirteenth
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The 5th edition of this
popular introduction to
statistics for the medical

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and health sciences has undergone a significant revision, with several new chapters added and examples refreshed throughout the book. Yet it retains its central philosophy to explain medical statistics with as little technical detail as possible, making it accessible to a wide audience. Helpful multi-choice exercises are

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included at the end of each chapter, with answers provided at the end of the book. Each analysis technique is carefully explained and the mathematics kept to a minimum. Written in a style suitable for statisticians and clinicians alike, this edition features many real and original examples, taken from

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the authors' combined many years' experience of designing and analysing clinical trials and teaching statistics. Students of the health sciences, such as medicine, nursing, dentistry, physiotherapy, occupational therapy, and radiography should find the book useful, with examples relevant to their disciplines. The

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aim of training courses
in medical statistics
pertinent to these areas
is not to turn the
students into medical
statisticians but rather to
help them interpret the
published scientific
literature and appreciate
how to design studies
and analyse data arising
from their own projects.
However, the reader
who is about to design

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their own study and collect, analyse and report on their own data will benefit from a clearly written book on the subject which provides practical guidance to such issues. The practical guidance provided by this book will be of use to professionals working in and/or managing clinical trials, in

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academic, public health,
government and
industry settings,
particularly medical
statisticians, clinicians,
trial co-ordinators. Its
practical approach will
appeal to applied
statisticians and
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in particular those in the
biopharmaceutical
industry, medical and
public health

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revered for its emphasis
on fundamental
principles and how to
apply them. This text is
known for its clear and
thorough narrative, as
well as its uniquely
broad, deep, and

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thoughtful sets of worked examples that provide students with key tools for developing both conceptual understanding and problem-solving skills. The 14th Edition improves the defining features of the text while adding new features influenced by education research to teach the skills needed

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by today's students.
University Physics:
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Modern Physics
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Volume 2 (Chs. 21-37)
Physics
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Manual for University
Physics with Modern
Physics Volume 1 (Chs.
1-20)
Building upon Serway

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and Jewetta's solid foundation in the modern classic text, *Physics for Scientists and Engineers*, this first Asia-Pacific edition of *Physics* is a practical and engaging introduction to *Physics*. Using international and local case studies and worked examples to add to the concise language and high quality

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artwork, this new regional edition further engages students and highlights the relevance of this discipline to their learning and lives.

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Strategies to be more

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concise and direct while maintaining the Twelfth Edition's consistent, structured approach and strong focus on modeling as well as math. To help students tackle challenging as well as routine problems, the Thirteenth Edition adds Bridging Problems to each chapter, which pose a difficult, multiconcept

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problem and provide a skeleton solution guide in the form of questions and hints. The text's rich problem sets—developed and refined over six decades—are upgraded to include larger numbers of problems that are biomedically oriented or require calculus. The problem-set revision is driven by detailed student-performance

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"University Physics is a
three-volume collection

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that meets the scope and 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 interesting and

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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 Textbook Library.

This book is the product of more than half a

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century of leadership
and innovation in
physics education.
When the first edition of
University Physics by
Francis W. Sears and
Mark W. Zemansky was
published in 1949, it
was revolutionary
among calculus-based
physics textbooks in its
emphasis on the
fundamental principles
of physics and how to

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apply them. The success of University Physics with generations of (several million) students and educators around the world is a testament to the merits of this approach and to the many innovations it has introduced subsequently. In preparing this First Australian SI edition, our aim was to create a

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Physics Education in
Australia. We have
further enhanced and
developed University
Physics to assimilate the
best ideas from
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enhanced problem-
solving instruction,
pioneering visual and
conceptual pedagogy,
the first systematically
enhanced problems, and

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University Physics
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continues an
unmatched history of
innovation and careful
execution that was
established by the
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Edition. Assimilating the best ideas from education research, this new edition provides enhanced problem-solving instruction, pioneering visual and conceptual pedagogy, the first systematically enhanced problems, and the most pedagogically proven

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and widely used
homework and tutorial
system available.

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Freedman's research-
based ISEE (Identify,
Set Up, Execute,
Evaluate) problem-
solving strategy,
students develop the
physical intuition and
problem-solving skills
required to tackle the

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text's extensive high-quality problem sets, which have been developed and refined over the past five decades. Incorporating proven techniques from educational research that have been shown to improve student learning, the figures have been streamlined

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in color and detail to focus on the key physics and integrate 'chalkboard-style' guiding commentary. Critically acclaimed 'visual' chapter summaries help students to consolidate their understanding by presenting each concept in words, math, and figures.

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Renowned for its superior problems, the Twelfth Edition goes further.

Unprecedented analysis of national student metadata has allowed every problem to be systematically enhanced for educational effectiveness, and to

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ensure problem sets of ideal topic coverage, balance of qualitative and quantitative problems, and range of difficulty and duration. This is the standalone version of University Physics with Modern Physics, Twelfth Edition.

The Student's Study Guide summarizes the

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essential information in each chapter and provides additional problems for the student to solve, reinforcing the text's emphasis on problem-solving strategies and student misconceptions.

Student's Study Guide
for University Physics
with Modern Physics,
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Physics is designed to
give readers
conceptual insight and
create active
involvement in the
learning process.

Topics include
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Newton's Laws of
Motion, work and
kinetic energy,

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potential energy,
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and heat, Laws of
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many more. For
anyone interested in
Algebra-based
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For courses in College
Physics. Help students
see the connections

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between problem
types and understand
how to solve them For
more than five
decades, Sears and
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Physics has provided
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With the 11th Edition,
author Phil Adams

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incorporates data from thousands of surveyed students detailing their use and reliance on worked examples, video tutorials, and need for just-in-time remediation when working homework problems and preparing for exams. Driven by how students actually use

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the text and media today to prepare for their exams, the new edition adds worked examples and new Example Variation Problems in each chapter to help students see patterns and make connections between problem types. They learn to recognize when to use

similar steps in solving the same problem type and develop an understanding for problem solving approaches, rather than simply plugging in an equation. The expanded problem types and scaffolded in-problem support help students develop

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greater confidence in solving problems, deepen conceptual understanding, and strengthen quantitative-reasoning skills for better exam performance. All new problems sets are available in Mastering Physics with wrong answer specific feedback along with a

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wealth of new wrong
answer feedback,
hints, and eTexts links
with 20% of end of
chapter problems.

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Solutions
A Textbook for the
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This volume covers
Chapters 1--20 of the
main text. The Student's
Solutions Manual

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provides detailed, step-by-step solutions to more than half of the odd-numbered end-of-chapter problems from the text. All solutions follow the same four-step problem-solving framework used in the textbook.

University Physics is designed for the two- or three-semester calculus-based physics course.

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The text has been developed to meet the scope and 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 students to learn the core concepts of physics and understand how those concepts apply to

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their lives and to the world around them. Due to the comprehensive nature of the 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 sequence of most two- and three-semester physics

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courses nationwide. We have worked to make physics 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 from fundamental to more

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advanced concepts,
building upon what
students have already
learned and
emphasizing
connections between
topics and between
theory and 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 useful in later

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courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME III Unit 1:

Optics Chapter 1: The

Nature of Light Chapter

2: Geometric Optics and

Image Formation

Chapter 3: Interference

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Chapter 4: Diffraction
Unit 2: Modern Physics
Chapter 5: Relativity
Chapter 6: Photons and
Matter Waves Chapter
7: Quantum Mechanics
Chapter 8: Atomic
Structure Chapter 9:
Condensed Matter
Physics Chapter 10:
Nuclear Physics Chapter
11: Particle Physics and
Cosmology
College Physics brings

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physics to life through a
unique approach to the
algebra-level
introductory physics
course. Its winning
combination of
annotated art, carefully
integrated life sciences
applications, and strong
problem solving and
conceptual
understanding pedagogy
makes this the best text
available for helping

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students master the physics they need to know for their future careers. Using innovative visual cues to break down physics concepts and sequences in numbered equations and figures, College Physics leads students to develop the crucial conceptual understanding they need to be successful in the

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course. Carefully crafted to support students new to college-level physics, pedagogical features (chapter goals, Take-Home Messages, Got the Concept?, Watch Out!) guide students to becoming adept problem-solvers. By incorporating a rigorous presentation of the fundamentals of algebra-based introductory

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physics with formative physiology, biomedical, and life science topics, students learn to connect physics to living systems. The ultimate goal is for students to have both a solid foundation in physics and to develop a deeper appreciation for why physics is important to their future work in the life sciences.

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NOTE: You are purchasing a standalone product; MasteringPhysics does not come packaged with this content. For courses in calculus-based physics. The benchmark for clarity and rigor, influenced by the latest in education research. Since its first edition, University Physics has been revered for its

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emphasis on
fundamental principles
and how to apply them.
This text is known for
its clear and thorough
narrative, as well as its
uniquely broad, deep,
and thoughtful sets of
worked examples that
provide students with
key tools for developing
both conceptual
understanding and
problem-solving skills.

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The Fourteenth Edition improves the defining features of the text while adding new features influenced by education research to teach the skills needed by today's students. A focus on visual learning, new problem types, and pedagogy informed by MasteringPhysics metadata headline the improvements designed

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to create the best learning resource for physics students. Also available with MasteringPhysics MasteringPhysics from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful

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content. Instructors ensure students arrive ready to learn by assigning educationally effective content before class and encourage critical thinking and retention with in-class resources such as Learning Catalytics. Students can further master concepts after class through traditional and adaptive homework

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assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions.

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Mastering brings
learning full circle by
continuously adapting to
each student and making
learning more personal
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problem solvers
Practice makes
perfect. The new 15th
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Physics draws on a
wealth of data insights
from hundreds of
faculty and thousands

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of student users to address one of the biggest challenges for students in introductory physics courses: seeing patterns and making connections between problem types. Students learn to recognize when to use similar steps in solving the same

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problem type and develop an understanding for problem solving approaches, rather than simply plugging in an equation. This new edition addresses students' tendency to focus on the objects, situations, numbers, and questions posed in a problem, rather than

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recognizing the underlying principle or the problem's type. New Key Concept statements at the end of worked examples address this challenge by identifying the main idea used in the solution to help students recognize the underlying concepts and strategy for the

given problem. New
Key Example
Variation Problems
appear within new
Guided Practice
sections and group
problems by type to
give students practice
recognizing when
problems can be
solved in a similar
way, regardless of
wording or numbers.

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These scaffolded problem sets help students see patterns, make connections between problems, and build confidence for tackling different problem types when exam time comes. The fully integrated problem-solving approach in Mastering Physics gives students

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instructional support
and just-in-time
remediation as they
work through
problems, and links all
end-of-chapter
problems directly to
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between homework
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