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Lecture 1 | Modern

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Walter Lewin - May

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For Physics Exams

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~~Hans~~

Sir Hans Sloane was one of the most influential men of early eighteenth ... He received his doctorate in physics in the same year, and continued to establish connections with some of the greatest ...

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~~The Sloane collection~~
(Airlines, apparently,
don't like any mention
of God.) "One time on a
show I was working on,
a looper was reading out
of a physics textbook as
he walked across the
stage. That's something
...

~~"The Mafia of the
Acting World":~~

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~~Hollywood's Secret
Loop Groups~~

The second half of the
prize went to Giorgio ...

is solidly based on
physical theory and well-
known physics,”

Swedish physicist Thors
Hans Hansson said at
the announcement.

~~Physics Nobel rewards
work on climate change,
other forces~~

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Secretary General of the

Royal Swedish

Academy of Sciences

Goran Hansson, center,

flanked at left by

member of the Nobel

Committee for Physics

Thors Hans Hansson ...

The second half of the

...

~~Nobel physics prize~~

~~goes to 3 for climate~~

~~discoveries~~

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STOCKHOLM (AP) —

Three scientists won the Nobel Prize for physics on Tuesday for work that found order in seeming disorder, helping to explain and predict complex forces of nature, including ...

~~Nobel physics prize goes to 3 for climate discoveries~~

STOCKHOLM (AP) —

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The Nobel Prize for physics has been awarded to scientists ... and reliably predicting global warming." The second half of the prize was awarded to Giorgio Parisi, 73, for ...

This text provides a transition from introductory into

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modern physics-the
physics of the 20th
century.

Ohanian

This text provides a quantitative introduction to general relativity for advanced undergraduate and graduate students.

Designed for the introductory, calculus-based physics course,
Physics for Engineers

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and Scientists is

distinguished by its
lucid exposition and

accessible coverage of
fundamental physics

concepts. The text

presents a modern view
of classical mechanics

and electromagnetism
for today's science and

engineering students,
including coverage of

optics and quantum
physics and

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emphasizing the relationship between macroscopic and microscopic

phenomena. Organized to address specific concepts and then build on them, the text divides each chapter into short, focused sections followed by conceptual review questions. Using real-world examples throughout the text, the

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authors offer a glimpse
of the practical
applications of physics
in science and

engineering and develop
a solid conceptual
foundation that enables
students to become
better problem solvers.

A well-integrated media
package extends this
emphasis on core
concepts and problem-
solving skills by

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offering students and
instructors many diverse
opportunities for active
learning.

Designed for the
introductory calculus-
based physics course,
Physics for Engineers
and Scientists is
distinguished by its
lucid exposition and
accessible coverage of
fundamental physical

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concepts. Physics 2nd

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Nearly all of this book is taken from an article prepared for a volume of the Encyclopedia of Physics. This article, in turn, is partly based on Dr. Norbert Rosenzweig's translation of an older article on the same subject, written by one of us (H.A.B.) about 25

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years ago for the Geiger-

Scheel Handbuch der
Edition Hans C
Physik. To the article

Obanian
written last year we

have added some

Addenda and Errata.

These Addenda and

Errata refer back to

some of the 79 sections

of the main text and

contain some misprint

corrections, additional

references and some

notes. The aim of this

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book is two-fold. First, to act as a reference work on calculations pertaining to hydrogen-like and helium-like atoms and their comparison with experiments. However, these calculations involve a vast array of approximation methods, mathematical tricks and physical pictures, which are also useful in the

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application of quantum mechanics to other fields. In many sections we have given more general discussions of the methods and physical ideas than is necessary for the study of the H- and He-atom alone. We hope that this book will thus at least partly fulfill its second aim, namely to be of some use to graduate

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students who wish to learn "applied quantum mechanics". A basic knowledge of the principles of quantum mechanics, such as given in the early chapters of Schiff's or Bohm's book, is presupposed.

The present text is an outgrowth of such a laboratory course given

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by the author at the
University of Rochester
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 laboratory
at all times and, in
general, worked during
hours of their own
choice well in excess of

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the scheduled periods.

The students worked in pairs, which in most cases provides a highly motivating and

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

provided the evidence

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

Waves and Oscillations
in Plasmas addresses
central issues in modern

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plasma sciences, within the context of general classical physics. The book is working gradually from an introductory to an advanced level.

Addressing central issues in modern plasma sciences, including linear and nonlinear wave phenomena, this second edition has been fully updated and

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includes the latest developments in relevant fluid models as well as kinetic plasma models, including a detailed discussion of, for instance, collisionless Landau damping, linear as well as non-linear. The book is the result of many years of lecturing plasma sciences in Norway, Denmark,

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Germany, and also at the United States of America. Offering a clear separation of linear and nonlinear models, the book can be tailored for students of varying levels of expertise in plasma physics, in addition to areas as diverse as the space sciences, laboratory experiments, plasma processing, and more.

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Physics: Presents a simple physical interpretation of basic problems is presented where possible Supplies a complete summary of classical papers and textbooks placed in the proper context Includes worked examples, exercises, and problems with general applicability

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Distinguished physicist
examines emotive
significance of time,
time order of
mechanics, time
direction of
thermodynamics and
microstatistics, time
direction of
macrostatistics, time of
quantum physics, more.
1971 edition.

The text presents a

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classical mechanics and
electromagnetism for
today's science and

engineering students,
including coverage of
optics and quantum
physics and

emphasizing the
relationship between
macroscopic and
microscopic

phenomena. Organized
to address specific

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Concepts and then build

on them, this highly
readable text divides

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world examples, the

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of the practical

applications of physics

in science and

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a solid conceptual

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foundation before

introducing

mathematical results

and derivations (a basic

knowledge of

derivatives and integrals

is assumed).

“A thought-provoking

critique of Einstein’s

tantalizing combination

of brilliance and

blunder.”—Andrew

Robinson, *New Scientist*

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Never before translated into English, the Manimekhalai is one of the great classics of Indian culture.

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