Free reading Schaums outline of modern physics [PDF]

introduction to modern physics second edition is a 16 chapter text that discusses the principles of modern physics this book deals first with the basic topics of modern science including the atomic nature of matter and electricity the theory of relativity the old quantum theory waves and particles and the schrödinger equation the subsequent chapters cover other general topics of molecular spectra superconductivity and the biological effects of radiation illustrating the fundamental quantum theory of angular momentum and the harmonic oscillator the remaining chapters explore the properties of nucleus nuclear transformation and interactions of particles this book is an invaluable source for undergraduate quantum mechanics students while the two previous books entitled introduction to modern physics theoretical foundations and advanced modern physics theoretical foundations exposed the reader to the foundations and frontiers of today s physics the goal of this third volume is to cover in some detail several topics omitted in the essentially linear progression of the first two this book is divided into three parts part 1 is on quantum mechanics analytic solutions to the schrödinger equation are developed for some basic systems the analysis is then formalized concluding with a set of postulates for the theory part 2 is on applications of quantum mechanics approximation methods for bound states scattering theory time dependent perturbation theory and electromagnetic radiation and quantum electrodynamics part 3 covers some selected topics in relativistic quantum field theory discrete symmetries the heisenberg picture and the feynman rules for quantum chromodynamics the three volumes in this series taken together provide a clear logical self contained and comprehensive base from which the very best students can learn modern physics when finished readers should have an elementary working knowledge in the principal areas of theoretical physics of the twentieth century 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 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 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 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 this comprehensive collection of articles emphasizes new discoveries and technology and also covers some long standing areas of research in the field of physics topics covered include superconductivity quantum optics and laser cooling modern physics for scientists and engineers provides an introduction to the fundamental concepts of modern physics and to the various fields of contemporary physics the book s main goal is to help prepare engineering students for the upper division courses on devices they will later take and to provide physics majors and engineering students an up to date description of contemporary physics the book begins with a review of the basic properties of particles and waves from the vantage point of classical physics followed by an overview of the important ideas of new quantum theory it describes experiments that help characterize the ways in which radiation interacts with matter later chapters deal with particular fields of modern physics these include includes an account of the ideas and the technical developments that led to the ruby and helium neon lasers and a modern description of laser cooling and trapping of atoms the treatment of condensed matter physics is followed by two chapters devoted to semiconductors that conclude with a phenomenological description of the semiconductor laser relativity and particle physics are then treated together followed by a discussion of feynman diagrams and particle physics develops modern quantum mechanical ideas systematically and uses these ideas consistently throughout the book carefully considers fundamental subjects such as transition probabilities crystal structure reciprocal lattices and bloch theorem which are fundamental to any treatment of lasers and semiconductor devices uses applets which make it possible to consider real physical systems such as many electron atoms and semi conductor devices these notes are designed as a text book for a course on the modern physics theory for undergraduate students the purpose is providing a rigorous and self contained presentation of the simplest theoretical framework using elementary mathematical tools a number of examples of relevant applications and an appropriate list of exercises and answered questions are also given modern physics is the most up to date accessible presentation of modern physics available the book is intended to be used in a one semester course covering modern physics for students who have already had basic physics and calculus courses the balance of the book leans more toward ideas than toward experimental methods and practical applications because the beginning student is better served by a conceptual

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framework than by a mass of details the sequence of topics follows a logical rather than strictly historical order relativity and quantum ideas are considered first to provide a framework for understanding the physics of atoms and nuclei the theory of the atom is then developed and followed by a discussion of the properties of aggregates of atoms which includes a look at statistical mechanics finally atomic nuclei and elementary particles are examined this textbook describes with the necessary mathematical formalism all cognitive areas related to modern physics starting from the formulation of the scientific method to the crisis of classical physics in the second half of the nineteenth century these areas range from mechanics to fluid dynamics thermodynamics to optics oscillatory phenomena to electromagnetism and are interconnected by the cognitive matrix of experimental physics and the evolution of human society over the centuries therefore the book stands as a springboard toward the understanding of contemporary physics which arose as an outgrowth and extension of classical physics and toward the knowledge of all those technological fields that even today are based on the applications of the theories set forth in this paper the eighteenth edition of this well known textbook continues to provide a thorough understanding of the principles of modern physics it offers a detailed presentation of important topics such as atomic physics quantum mechanics nuclear physics solid state physics and electronics the concepts are exhaustively presented with numerous examples and diagrams which would help the students in analysing and retaining the concepts in an effective manner this textbook is a useful resource for undergraduate students and will also serve as a reference text for pg students this book highlights foundational issues in theoretical physics in an informal open style of lecture it expresses the flow of ideas in physics oco from the period of galileo and newton to the contemporary ideas of the guantum and relativity theories astrophysics and cosmology oco as explanations for the laws of matter rather than presenting the ideas of physics as a fait accompli the book leaves it up to the reader to decide which of these 20th century ideas in science will carry over to the 21st century for our further comprehension of the laws of nature in all domains from that of elementary particles to cosmology it is the contention of the author that our future progress in physics comprehension will only take place when the foundational controversies between the quantum and relativity theories are recognized and discussion is given to their resolution the book therefore presents an attitude not normally taken in other present day books on subjects in contemporary theoretical physics and cosmology sample chapter s lecture i philosophy of science 83 kb contents philosophy of science classical precursors for the concepts of modern physics nineteenth century physics atomism and continuity early anomalies and elementary particles from the old quantum theory to quantum mechanics quantum mechanics heisenberg s matrix mechanics and the copenhagen school concepts of the theory of relativity from special to general relativity the universe conflicts in the foundations of the quantum and relativity theories readership academics undergraduates and graduates in physics and philosophy interested general readers unlike some other reproductions of classic texts 1 we have not used ocr optical character recognition as this leads to bad quality books with introduced typos 2 in books where there are images such as portraits maps sketches etc we have endeavoured to keep the quality of these images so they represent accurately the original artefact although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future generations to enjoy principles of modern physics covers important developments in physics during the twentieth century beginning with the development of the quantum concept and radiation laws followed by einstein s special relativity it covers atomic structure basics of spectra basic non relativistic quantum mechanics with an introduction to dirac s relativistic wave equation and the problem of hydrogen atom this follows the statistical distribution laws x rays and physics of solids their imperfections magnetic properties and superconductivity including newly discovered high tc superconductors zeeman and stark effects lasers nuclear physics radio activity nuclear fission and fusion particle accelerators and detectors it features a discussion on universe including stellar evolution chandrasekhar limit black holes and big bang theory elementary particles including tau theta puzzle su 2 and su 3 symmetry the eightfold way in this third edition of elementary modern physics our aim remains that of treating the fundamentals of twentieth century physics for an introductory course in modern physics the prerequisites are merely an elementary knowledge of classical physics and introductory calculus preface a biography of the nobel prize winning physicist whose work led to the discovery of nuclear fission the basis of nuclear power and the atom bomb nobel laureate steven weinberg explains the foundations of modern physics in historical context for undergraduates and beyond blurb contents this collection of the finest recent articles from physics today is a fascinating chronicle of the people and events shaping modern science and society includes profiles personal memoirs and histories of important institutions and organizations among the more than 60 contributors are such distinguished figures as murray gell mann robert hofstadter irving langmuir abraham pais norman ramsey emilio segre and victor weisskopf tipler and llewellyn s acclaimed text for the intermediate level course not the third semester of the introductory course guides students through the foundations and wide ranging applications of modern physics with the utmost clarity without sacrificing scientific integrity this well written book is devoted to modern physics that was revolutionized in the last century with few exceptions the monograph is self contained he book is also useful for practicing

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scientists treating basic principles and a wide range of applications excerpt from essentials of modern physics while the belief seems to be quite common that the world war revolutionized the sciences of physics and chemistry it is a fact that the fundamental principles of these sciences were unchanged it is true however that many new applications of well known principles were developed and some more or less obscure processes came to be used on a large scale these interesting applications have been brought to the attention of the general public through the press as well as through the actual experience of thousands of young men in the army thus the interest in both physics and chemistry has developed to a greater extent within the last few years than it did during the preceding guarter of a century no subject in the secondary school course of study touches the student s life more closely than elementary physics no subject is better fitted to develop the reasoning powers or to cultivate the incommon faculty known as common sense prom the time the pupil opens the water faucet in the morning until he snaps off the electric light upon retiring he is constantly applying or observing some of the principles of physics these principles may be connected with the automobile the street car or motion pictures or they may have to do with the more prosaic wheelbarrows buck saws or jack knives although the applications of physics are so common yet any attempt to present the essentials of the subject to pupils of high school age is certain to meet with many real difficulties about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works ideal for both physics majors engineers this edition provides a clear precise and contemporary introduction to the theory experiment and applications of modern physics there has been increasing interest in including a significant treatment of modern physics in the introductory physics course in response to this trend the authors have prepared an extended version of physics part ii they have modified the last two chapters light and quantum physics and the wave nature of matter and added five new ones namely the structure of atoms atomic physics three selected topics electrical conduction in solids nuclear physics an introduction and energy from the nucleus excerpt from the concepts and theories of modern physics it is my conviction that this belief is but partially conformable to the fact and that the prevailing misconceptions in regard to the true logical and psychological premisses of science are prolific of errors whose reaction upon the character and tendencies of modern thought becomes more apparent from day to day the shallow and sciolistic materialism i allude of course not to its supposed ethical but to its purely intellectual aspects which for a time threatened to blight the soil and poison the atmosphere even of the old highlands of thought on the continent of europe claims to be a presentation of conclusions from the facts and principles established in the several departments of physical science it is part of my endeavor to meet this claim by an examination of the fundamental concepts and general theories of that department of physical science which is in a sense the basis and support of all its other departments the department of physics it will be seen at once upon a most cursory glance at any one of the chapters of this little book that it is in no wise intended as an open or covert advocacy of a return to metaphysical methods and aims but that on the contrary its tendency is throughout to eliminate from science its latent metaphysical elements to foster and not to repress the spirit of experimental investigation and to accredit instead of discrediting the great endeavor of scientific research to gain a sure foothold on solid empirical ground where the real data of experience may be reduced without ontological prepossessions about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Fundamentals of Modern Physics 1965

introduction to modern physics second edition is a 16 chapter text that discusses the principles of modern physics this book deals first with the basic topics of modern science including the atomic nature of matter and electricity the theory of relativity the old quantum theory waves and particles and the schrödinger equation the subsequent chapters cover other general topics of molecular spectra superconductivity and the biological effects of radiation illustrating the fundamental quantum theory of angular momentum and the harmonic oscillator the remaining chapters explore the properties of nucleus nuclear transformation and interactions of particles this book is an invaluable source for undergraduate quantum mechanics students

Introduction to Modern Physics 2012-12-02

while the two previous books entitled introduction to modern physics theoretical foundations and advanced modern physics theoretical foundations exposed the reader to the foundations and frontiers of today s physics the goal of this third volume is to cover in some detail several topics omitted in the essentially linear progression of the first two this book is divided into three parts part 1 is on quantum mechanics analytic solutions to the schrödinger equation are developed for some basic systems the analysis is then formalized concluding with a set of postulates for the theory part 2 is on applications of quantum mechanics approximation methods for bound states scattering theory time dependent perturbation theory and electromagnetic radiation and quantum electrodynamics part 3 covers some selected topics in relativistic quantum field theory discrete symmetries the heisenberg picture and the feynman rules for quantum chromodynamics the three volumes in this series taken together provide a clear logical self contained and comprehensive base from which the very best students can learn modern physics when finished readers should have an elementary working knowledge in the principal areas of theoretical physics of the twentieth century

Fundamentals of Modern Physics 1964

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 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 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 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

Topics in Modern Physics 2013-01-21

this comprehensive collection of articles emphasizes new discoveries and technology and also covers some long standing areas of research in the field of physics topics covered include superconductivity quantum optics and laser cooling

The "particles" of Modern Physics 1944

modern physics for scientists and engineers provides an introduction to the fundamental concepts of modern physics and to the various fields of contemporary physics the book s main goal is to help prepare engineering students for the upper division courses on devices they will later take and to provide physics majors and engineering students an up to date description of contemporary physics the book begins with a review of the basic properties of particles and waves from the vantage point of classical physics followed by an overview of the important ideas of new quantum theory it describes experiments that help characterize the ways in which radiation interacts with matter later chapters deal with particular fields of modern physics these include includes an account of the ideas and the technical developments that led to the ruby and helium neon lasers and a modern description of laser cooling and trapping of atoms the treatment of condensed matter physics is followed by two chapters devoted to semiconductors that conclude with a phenomenological description of the semiconductor laser relativity and particle physics are then treated together followed by a discussion of feynman diagrams and particle physics develops

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modern quantum mechanical ideas systematically and uses these ideas consistently throughout the book carefully considers fundamental subjects such as transition probabilities crystal structure reciprocal lattices and bloch theorem which are fundamental to any treatment of lasers and semiconductor devices uses applets which make it possible to consider real physical systems such as many electron atoms and semi conductor devices

Fundamentals of Modern Physics 1961

these notes are designed as a text book for a course on the modern physics theory for undergraduate students the purpose is providing a rigorous and self contained presentation of the simplest theoretical framework using elementary mathematical tools a number of examples of relevant applications and an appropriate list of exercises and answered questions are also given

Fundamentals of Modern Physics 1961

modern physics is the most up to date accessible presentation of modern physics available the book is intended to be used in a one semester course covering modern physics for students who have already had basic physics and calculus courses the balance of the book leans more toward ideas than toward experimental methods and practical applications because the beginning student is better served by a conceptual framework than by a mass of details the sequence of topics follows a logical rather than strictly historical order relativity and quantum ideas are considered first to provide a framework for understanding the physics of atoms and nuclei the theory of the atom is then developed and followed by a discussion of the properties of aggregates of atoms which includes a look at statistical mechanics finally atomic nuclei and elementary particles are examined

Modern Physics 2019-06-18

this textbook describes with the necessary mathematical formalism all cognitive areas related to modern physics starting from the formulation of the scientific method to the crisis of classical physics in the second half of the nineteenth century these areas range from mechanics to fluid dynamics thermodynamics to optics oscillatory phenomena to electromagnetism and are interconnected by the cognitive matrix of experimental physics and the evolution of human society over the centuries therefore the book stands as a springboard toward the understanding of contemporary physics which arose as an outgrowth and extension of classical physics and toward the knowledge of all those technological fields that even today are based on the applications of the theories set forth in this paper

Encyclopedia of Modern Physics 1990

the eighteenth edition of this well known textbook continues to provide a thorough understanding of the principles of modern physics it offers a detailed presentation of important topics such as atomic physics quantum mechanics nuclear physics solid state physics and electronics the concepts are exhaustively presented with numerous examples and diagrams which would help the students in analysing and retaining the concepts in an effective manner this textbook is a useful resource for undergraduate students and will also serve as a reference text for pg students

Perspectives of Modern Physics 1969

this book highlights foundational issues in theoretical physics in an informal open style of lecture it expresses the flow of ideas in physics oco from the period of galileo and newton to the contemporary ideas of the quantum and relativity theories astrophysics and cosmology oco as explanations for the laws of matter rather than presenting the ideas of physics as a fait accompli the book leaves it up to the reader to decide which of these 20th century ideas in science will carry over to the 21st century for our further comprehension of the laws of nature in all domains from that of elementary particles to cosmology it is the contention of the author that our future progress in physics comprehension will only take place when the foundational controversies between the quantum and relativity theories are recognized and discussion is given to their resolution the book therefore presents an attitude not normally taken in other present day books on subjects in contemporary theoretical physics and cosmology sample chapter s lecture i philosophy of science 83 kb contents philosophy of science classical precursors for the concepts of modern physics nineteenth century physics atomism and continuity early anomalies and elementary particles from the old quantum theory to quantum mechanics quantum mechanics heisenberg s matrix mechanics and the copenhagen school concepts of the theory of relativity from special to general relativity the universe conflicts in the foundations of the quantum and relativity theories readership academics undergraduates and graduates in physics and philosophy interested general readers

Modern Physics 2009-11-04

unlike some other reproductions of classic texts 1 we have not used ocr optical character recognition as this leads to bad quality books with introduced typos 2 in books where there are images such as portraits maps sketches etc we have endeavoured to keep the quality of these images so they represent accurately the original artefact although occasionally there may be certain imperfections with these old texts we feel they deserve to be made available for future generations to enjoy

Introduction to the Basic Concepts of Modern Physics 2010-06-04

principles of modern physics covers important developments in physics during the twentieth century beginning with the development of the quantum concept and radiation laws followed by einstein s special relativity it covers atomic structure basics of spectra basic non relativistic quantum mechanics with an introduction to dirac s relativistic wave equation and the problem of hydrogen atom this follows the statistical distribution laws x rays and physics of solids their imperfections magnetic properties and superconductivity including newly discovered high tc superconductors zeeman and stark effects lasers nuclear physics radio activity nuclear fission and fusion particle accelerators and detectors it features a discussion on universe including stellar evolution chandrasekhar limit black holes and big bang theory elementary particles including tau theta puzzle su 2 and su 3 symmetry the eightfold way

Concepts of Modern Physics 1981

in this third edition of elementary modern physics our aim remains that of treating the fundamentals of twentieth century physics for an introductory course in modern physics the prerequisites are merely an elementary knowledge of classical physics and introductory calculus preface

Handbook of Modern Physics 2023-04-19

a biography of the nobel prize winning physicist whose work led to the discovery of nuclear fission the basis of nuclear power and the atom bomb

Modern Physics 2016

nobel laureate steven weinberg explains the foundations of modern physics in historical context for undergraduates and beyond

The History of Modern Physics 1983

blurb contents this collection of the finest recent articles from physics today is a fascinating chronicle of the people and events shaping modern science and society includes profiles personal memoirs and histories of important institutions and organizations among the more than 60 contributors are such distinguished figures as murray gell mann robert hofstadter irving langmuir abraham pais norman ramsey emilio segre and victor weisskopf

Elements of Modern Physics 1971

tipler and llewellyn s acclaimed text for the intermediate level course not the third semester of the introductory course guides students through the foundations and wide ranging applications of modern physics with the utmost clarity without sacrificing scientific integrity

Concepts and Theories of Modern Physics 2019

this well written book is devoted to modern physics that was revolutionized in the last century with few exceptions the monograph is self contained he book is also useful for practicing scientists treating basic principles and a wide range of applications

Essentials of Modern Physics 1994

excerpt from essentials of modern physics while the belief seems to be quite common that the world war revolutionized the sciences of physics and chemistry it is a fact that the fundamental principles of these sciences were unchanged it is true however that many new applications of well known principles were developed and some more or less obscure processes came to be used on a large scale these interesting applications have been brought to the attention of the general public through the press as well as through the actual experience of thousands of young men in the army thus the interest in both physics and chemistry has developed to a greater extent within the last few years than it did during the preceding quarter of a century no subject in the secondary school course of study touches the student s life more closely than elementary physics no subject is better fitted to develop the reasoning powers or to cultivate the incommon faculty known as common sense prom the time the pupil opens the water faucet in the morning until he snaps off the electric light upon retiring he is constantly applying or observing some of the principles of physics these principles may be connected with the automobile the street car or motion pictures or they may have to do with the more prosaic wheelbarrows buck saws or jack knives although the applications of physics are so common yet any attempt to present the essentials of the subject to pupils of high school age is certain to meet with many real difficulties about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Concepts of Modern Physics 2007

ideal for both physics majors engineers this edition provides a clear precise and contemporary introduction to the theory experiment and applications of modern physics

Principles of Modern Physics 1909

there has been increasing interest in including a significant treatment of modern physics in the introductory physics course in response to this trend the authors have prepared an extended version of physics part ii they have modified the last two chapters light and quantum physics and the wave nature of matter and added five new ones namely the structure of atoms atomic physics three selected topics electrical conduction in solids nuclear physics an introduction and energy from the nucleus

The Concepts and Theories of Modern Physics 2013-01-28

excerpt from the concepts and theories of modern physics it is my conviction that this belief is but partially conformable to the fact and that the prevailing misconceptions in regard to the true logical and psychological premisses of science are prolific of errors whose reaction upon the character and tendencies of modern thought becomes more apparent from day to day the shallow and sciolistic materialism i allude of course not to its supposed ethical but to its purely intellectual aspects which for a time threatened to blight the soil and poison the atmosphere even of the old highlands of thought on the continent of europe claims to be a presentation of conclusions from the facts and principles established in the several departments of physical science it is part of my endeavor to meet this claim by an examination of the fundamental concepts and general theories of that department of physical science which is in a sense the basis and support of all its other departments the department of physics it will be seen at once upon a most cursory glance at any one of the chapters of this little book that it is in no wise intended as an open or covert advocacy of a return to metaphysical methods and aims but that on the contrary its tendency is throughout to eliminate from science its latent metaphysical elements to foster and not to repress the spirit of experimental investigation and to accredit instead of discrediting the great endeavor of scientific research to gain a sure foothold on solid empirical ground where the real data of experience may be reduced without ontological prepossessions about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any

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The Concepts and Theories of Modern Physics 1897

Essentials of Modern Physics 1973

Principles of Modern Physics 2005

Elementary Modern Physics 1980

Enrico Fermi 1999-02-04

Foundations of Modern Physics 2021-04-22

The Life and Times of Modern Physics 1992

The Universe in the Light of Modern Physics 1931

Modern Physics 2003

Matter and Energy 1964

Theory And Problems Of Modern Physics (schaum S Outline Series) 1978

Introduction to Modern Physics 2008

Essentials of Modern Physics (Classic Reprint) 2015-09-27

Modern Physics 2008

Introduction to Modern Physics 1969

A Textbook of Modern Physics 1930

Modern Physics Chapters for Physics, Third Edition 1986

The Concepts and Theories of Modern Physics 2015-06-02

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