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Optical Engineering - 2004
Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science, engineering, and technology.
Book Catalog of the Library and Information Services Division: Shelf list catalog - Environmental Science Information Center. Library and Information Services Division 1977

Concepts of Force - Max Jammer 1999-01-01
This work by a noted physicist traces conceptual development from ancient to modern times. Kepler's initiation, Newton's definition, subsequent reinterpretation — contrasting concepts of Leibniz, Boscovich, Kant with those of Mach, Kirchhoff, Hertz. "An excellent presentation." — Science.
Catalog of Books and Reports in the Bureau of Mines Technical Library, Pittsburgh, Pa - United States. Bureau of Mines. Technical Library, Pittsburgh 1968

Introduction to Quantum Mechanics with Applications to Chemistry - Linus Pauling 2012-06-08
Classic undergraduate text explores wave functions for the hydrogen atom, perturbation theory, the Pauli exclusion principle, and the structure of simple and complex molecules. Numerous tables and figures.
The Physical Principles of the Quantum Theory - Werner Heisenberg 1949-01-01
Nobel Laureate discusses quantum theory, uncertainty, wave mechanics, work of Dirac, Schroedinger, Compton, Einstein, others. "An authoritative statement of Heisenberg's views on this aspect of the quantum theory." ? Nature.
Applied Optics and Optical Design, Part Two - A. E. Conrady 2014-05-05
Classic detailed treatment for practical designer. Fundamental concepts, systematic study and design of all types of optical systems. Reader can then design simpler optical systems without aid. Part Two of Two.
Optica Acta - 1972

Modern Optics - B. D. Guenther 2015
The most up-to-date treatment available on modern optics. The text gives an overview of the topics and an introduction to design practices for a number of applications. It provides the student with the foundations to enter into advanced courses in nonlinear optics, lens design, laser system design, and optical communications.

Report of the Annual Meeting of the South African Association for the Advancement of Science - 1961

Geometrical Optics - H.G. Zimmer 2013-03-08
Geometrical optics is no longer fashionable. Research workers do not expect significant new discoveries to be made in this field of classical physics. Teachers avoid the subject because its use for many generations in arid mathematical exercises has robbed it of all freshness and stimulus, with the result that it no longer seems relevant to a modern physics course. There remains - and perhaps this has grown in recent year- the technical significance of geometrical optics. It provides the basis for the design of optical instruments for use in everyday life as well as for scientific and industrial purposes. This small book is intended to treat two aspects of the subject: the laws of geometrical optics and their application to the design of optical instruments. The theory is not based on Snell's law of refraction but on a conservation law for the radiated energy. The subject can then be treated in a manner appropriate to contemporary physics: auxiliary geometrical parameters become unnecessary and the singularities resulting from their use vanish. The laws of geometrical optics can be formulated much more simply and their physical significance is revealed more clearly. I have tried to present the material in a form satisfactory both to teachers and to workers in the technical applications of optics. The content has thus been deliberately kept within the limits of a pocket book.
Continuum Mechanics - Anthony James Merrill Spencer 2004-01-01
Undergraduate text opens with introductory chapters on matrix algebra, vectors and Cartesian tensors, and an analysis of deformation and stress; succeeding chapters examine laws of conservation of mass, momentum, and energy as well as the formulation of mechanical constitutive equations. 1992 edition.
Electro Technology Newsletter - Stanley A. Dennis 1963
Optical Design - United States. Defense Supply Agency 1963

An Introduction to Practical Laboratory Optics - J. F. James 2014-09-25
Aimed at students taking practical laboratory courses in experimental optics, this book helps readers to understand the components within optical instruments. Topics covered range from the operation of lenses and mirrors to the laws which govern the design, layout and working of optical instruments.
Paperbound Books in Print - 1992

Theoretical Nuclear Physics - John Markus Blatt 1991-01-01
A classic work by two leading physicists and scientific educators endures as an uncommonly clear and cogent investigation and correlation of key aspects of theoretical nuclear physics. It is probably the most widely adopted book on the subject. The authors approach the subject as "the theoretical concepts, methods, and considerations which have been devised in order to interpret the experimental material and to advance our ability to predict and control nuclear phenomena." The present volume does not pretend to cover all aspects of theoretical nuclear physics. Its coverage is restricted to phenomena involving energies below about 50 Mev, a region sometimes called classical nuclear physics. Topics include studies of the nucleus, nuclear forces, nuclear spectroscopy and two-, three- and four-body problems, as well as explorations of nuclear reactions, beta-decay, and nuclear shell structure. The authors have designed the book for the experimental physicist working in nuclear physics or graduate students who have had at least a one-term course in quantum mechanics and who know the essential concepts and problems of nuclear physics.
Fundamentals of Astrodynamics - Roger R. Bate 1971-01-01
Teaching text developed by U.S. Air Force Academy and designed as a first course emphasizes the universal

variable formulation. Develops the basic two-body and n-body equations of motion; orbit determination; classical orbital elements, coordinate transformations; differential correction; more. Includes specialized applications to lunar and interplanetary flight, example problems, exercises. 1971 edition.

Foundations of Optical System Analysis and Design - Lakshminarayan Hazra 2022-02-07

Since the incorporation of scientific approach in tackling problems of optical instrumentation, analysis and design of optical systems constitute a core area of optical engineering. A large number of software with varying level of scope and applicability is currently available to facilitate the task. However, possession of an optical design software, per se, is no guarantee for arriving at correct or optimal solutions. The validity and/or optimality of the solutions depend to a large extent on proper formulation of the problem, which calls for correct application of principles and theories of optical engineering. On a different note, development of proper experimental setups for investigations in the burgeoning field of optics and photonics calls for a good understanding of these principles and theories. With this backdrop in view, this book presents a holistic treatment of topics like paraxial analysis, aberration theory, Hamiltonian optics, ray-optical and wave-optical theories of image formation, Fourier optics, structural design, lens design optimization, global optimization etc. Proper stress is given on exposition of the foundations. The proposed book is designed to provide adequate material for 'self-learning' the subject. For practitioners in related fields, this book is a handy reference. Foundations of Optical System Analysis and Synthesis provides A holistic approach to lens system analysis and design with stress on foundations Basic knowledge of ray and wave optics for tackling problems of instrumental optics Proper explanation of approximations made at different stages Sufficient illustrations for facilitation of understanding Techniques for reducing the role of heuristics and empiricism in optical/lens design A sourcebook on chronological development of related topics across the globe This book is composed as a reference book for graduate students, researchers, faculty, scientists and technologists in R & D centres and industry, in pursuance of their understanding of related topics and concepts during problem solving in the broad areas of optical, electro-optical and photonic system analysis and design.

Investigations on the Theory of the Brownian Movement - Albert Einstein 1956-01-01

Five early papers evolve theory that won Einstein a Nobel Prize: "Movement of Small Particles Suspended in a Stationary Liquid Demanded by the Molecular-Kinetic Theory of Heat"; "On the Theory of the Brownian Movement"; "A New Determination of Molecular Dimensions"; "Theoretical Observations on the Brownian Motion"; and "Elementary Theory of the Brownian Motion."

Physics of Light and Optics (Black & White) - Michael Ware 2020

Paperbacks in Print - 1971

Hypersonic Inviscid Flow - Wallace Dean Hayes 2004-01-01

Unified, self-contained view of nonequilibrium effects, body geometries, and similitudes available in hypersonic flow and thin shock layer; appropriate for graduate-level courses in hypersonic flow theory. 1966 edition.

Military Standardization Handbook - United States. Dept. of Defense 1962

Lie Groups for Pedestrians - Harry J. Lipkin 2002-01-01

This book shows how the well-known methods of angular momentum algebra can be extended to treat other Lie groups. Chapters cover isospin; the three-dimensional harmonic oscillator; algebras of operators that change the number of particles; permutations, bookkeeping, and Young diagrams; and more. 1966 edition.

Applied Optics - 1963

Handbook of Optical Design - Daniel Malacara-Hernández 2017-12-19
Handbook of Optical Design, Third Edition covers the fundamental principles of geometric optics and their application to lens design in one volume. It incorporates classic aspects of lens design along with important modern methods, tools, and instruments, including contemporary astronomical telescopes, Gaussian beams, and computer lens design. Written by respected researchers, the book has been extensively classroom-tested and developed in their lens design courses. This well-illustrated handbook clearly and concisely explains the intricacies of optical system design and evaluation. It also discusses component selection, optimization, and integration for the development of effective optical apparatus. The authors analyze the performance of a wide range of optical materials, components, and systems, from simple magnifiers to complex lenses used in photography, ophthalmology, telescopes, microscopes, and projection systems. Throughout, the book includes a wealth of design examples, illustrations, and equations, most of which are derived from basic principles. Appendices supply additional background information. What's New in This Edition Improved figures, including 32 now in color Updates throughout, reflecting advances in the field New material on Buchdahl high-order aberrations Expanded and improved coverage of the calculation of wavefront aberrations based on optical path An updated list of optical materials in the appendix A clearer, more detailed description of primary aberrations References to important new publications Optical system design examples updated to include newly available glasses 25 new design examples This comprehensive book combines basic theory and practical details for the design of optical systems. It is an invaluable reference for optical students as well as scientists and engineers working with optical instrumentation.
Technical Books in Print - 1974

American Scientific Books - 1962

Catalog of Copyright Entries. Third Series - Library of Congress. Copyright Office 1961
Includes Part 1, Number 1 & 2: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - December)
Guide to the Literature of Engineering, Mathematics, and the Physical Sciences - Sylvia Weiser 1972

Applied Nonlinear Optics - Frits Zernike 2006-01-01
Directed toward physicists and engineers interested in the device applications enabled by nonlinear optics, this text is suitable for advanced undergraduates and graduate students. Its content is presented entirely on a classical basis and requires only an elementary knowledge of quantum mechanics. The authors demonstrate how real laboratory situations can diverge from ideal theory, acquainting readers with the kinds of problems common to construction of a nonlinear device. They also offer a detailed discussion of the practical problems and characteristics of nonlinear materials, as well as the selection procedures necessary to ensure the use of good material. Their treatment begins with an introduction to the theories of linear and nonlinear optics, along with the basic ideas behind them. Succeeding chapters explore phase matching and nonlinear materials, followed by detailed treatments of second-harmonic generation, parametric up-conversion, and optical parametric amplification and oscillation. Appendixes offer a comprehensive list of materials and their properties; the text concludes with references and an index.
Theory of Heat - James Clerk Maxwell 2001-01-01
Thisnbsp;classic sets forth the fundamentals of thermodynamics clearly and simply enough to be understood by a beginning student, yet with enough subtlety and depth of thought to appeal also to more advanced readers. It elucidates fundamentals of kinetic theory and illustrates the Second Law of

Thermodynamicsnbsp;withnbsp;"Maxwell's demon."
The Australian Journal of Science - 1966

Introduction to Modern Optics - Grant R. Fowles 2012-04-25
A complete basic undergraduate course in modern optics for students in physics, technology, and engineering. The first half deals with classical physical optics; the second, quantum nature of light. Solutions.
Introduction to Modern Optics - Grant R. Fowles 1989-01-01
This incisive text provides a basic undergraduate-level course in modern optics for students in physics, technology and engineering. The first half of the book deals with classical physical optics; the second principally with the quantum nature of light. Chapters 1 and 2 treat the propagation of light waves, including the concepts of phase and group velocities, and the vectorial nature of light. Chapter 3 applies the concepts of partial coherence and coherence length to the study of interference, and Chapter 4 takes up multiple-beam interference and includes Fabry-Perot interferometry and multilayer-film theory. Diffraction and holography are the subjects of Chapter 5, and the propagation of light in material media (including crystal and nonlinear optics) are central to Chapter 6. Chapters 7 and 8 introduce the quantum theory of light and elementary optical spectra, and Chapter 9 explores the theory of light amplification and lasers. Chapter 10 briefly outlines ray optics in order to introduce students to the matrix method for treating optical systems and to apply the ray matrix to the study of laser resonators. Many applications of the laser to the study of optics are integrated throughout the text. The author assumes students have had an intermediate course in electricity and magnetism and some advanced mathematics beyond calculus. For classroom use, a list of problems is included at the end of each chapter, with selected answers at the end of the book.
Fundamental Formulas of Physics, Volume Two - Donald H. Menzel 2013-02-21
Volume 2 of a two-volume set, this text covers basic mathematical formulas, statistics, nomograms, physical constants, classical mechanics, special and general theories of relativity, hydrodynamics and aerodynamics, more. 1955 edition.
Scientific and Technical Books in Print - 1972

Introduction to Matrix Methods in Optics - Anthony Gerrard 1994-01-01
Clear, accessible guide requires little prior knowledge and considers just two topics: paraxial imaging and polarization. Lucid discussions of paraxial imaging properties of a centered optical system, optical resonators and laser beam propagation, matrices in polarization optics and propagation of light through crystals, much more. 60 illustrations. Appendixes. Bibliography.
Applied Optics and Optical Design - Alexander Eugen Conrady 1992-01-01
Classic work presents Conrady's complete system of optical design. Part One covers all ordinary ray-tracing methods, together with the complete theory of primary aberration and as much of higher aberration as is needed for the design of telescopes, low-power microscopes, and simple optical systems.