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Fundamentals of Physics II Clinical Optics and Refraction University Physics FUNDAMENTALS OF OPTICS, SECOND EDITION Optics and Modern Physics for JEE Advanced, 3E (Free Sample) Vol 27: Wave Optics: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School Fiber Optic Communications Vol 26: Ray Optics: Adaptive Problems Book in Physics (with Detailed Solutions) for College & High School Last-minute Optics Nonlinear Optics Fiber Optics Physics of Light and Optics (Black & White) Light Optics and Photonics Optical- Response of Laser-Irradiated Tissue Hydrologic Optics: Solutions Optical-Thermal Response of Laser-Irradiated Tissue Fiber Optics Handbook: Fiber, Devices, and Systems for Optical Communications A Text Book Physical Optics & Laser Vol 09: Optics : Adaptive Problems Book in Physics for College & High School Fiber Optics Weekly Update Fiber Optic Reference Guide Optical Path Theory Fundamentals Freefhh Fiber optics weekly update Contact Lens Optics and Lens Design Laser Technology Development and Applications Oswaal JEE Advance 10 Mock Test Papers (Paper-1 & Paper-2) Physics, Chemistry, Mathematics (For 2023 Exam) Free-Space Optics Fiber Optics Handbook: Fiber, Devices, and Systems for Optical Communications Frontiers in Optics and Photonics Introduction to Modern Optics Progress in Optics Progress in Optics Oswaal NDA-NA Question Bank | Chapter-wise Previous Years Solved Question Papers (2014-2023) Set of 3 Books : English, General Studies, Mathematics For 2024 Exam Oswaal NDA-NA National Defence Academy / Naval Academy Yearwise (2017-2023) 12 Solved Papers GENERAL ABILITY TEST: GENERAL STUDIES (For 2023-24 Exam) Oswaal NDA-NA National Defence Academy / Naval Academy Chapterwise & Topicwise (2014-2023) Solved Papers General Ability Test: General Studies (For 2024 Exam) Oswaal NDA-NA Previous Years 12 Solved Question Papers Mathematics, English & GK (Set of 3 Books) (2017-2023) For 2024 Exam Optical Physics Nonlinear Meta-Optics Photoinduced Modifications of the Nonlinear Optical Response in Liquid Crystalline Azopolymers

Description of the product • 100% updated with Fully Solved April & September 2023 Papers. • Concept Clarity with Concept based Revision notes & Mind Maps. • Extensive Practice with 800+ Questions and Two Sample Question Papers. • Crisp Revision with Concept Based Revision notes, Mind Maps & Mnemonics. • Expert Tips helps you get expert knowledge master & crack NDA/NA in first attempt. • Exam insights with 5 Year-wise (2019-2023) Trend Analysis, empowering students to be 100% exam ready. Fiber-optic communication systems have advanced dramatically over the last four decades, since the era of copper cables, resulting in low-cost and high-bandwidth transmission.

Fiber optics is now the backbone of the internet and long-distance telecommunication. Without it we would not enjoy the benefits of high-speed internet, or low-rate international telephone calls. This book introduces the basic concepts of fiber-optic communication in a pedagogical way. The important mathematical results are derived by first principles rather than citing research articles. In addition, physical interpretations and real-world analogies are provided to help students grasp the fundamental concepts. Key Features: Lucid explanation of key topics such as fibers, lasers, and photodetectors. Includes recent developments such as coherent communication and digital signal processing. Comprehensive treatment of fiber nonlinear transmission. Worked examples, exercises, and answers. Accompanying website with PowerPoint slides and numerical experiments in MATLAB. Intended primarily for senior undergraduates and graduates studying fiber-optic communications, the book is also suitable as a professional resource for researchers working in the field of fiber-optic communications. The Second Edition of this successful textbook provides a clear, well-written introduction to both the fundamental principles of optics and the key aspects of photonics to show how the subject has developed in the last few decades, leading to many modern applications. Optics and Photonics: An Introduction, Second Edition thus provides a complete undergraduate course on optics in a single integrated text, and is an essential resource for all undergraduate physics, science and engineering students taking a variety of optics based courses. Specific changes for this edition include: New material on modern optics and photonics Rearrangement of chapters to give a logical progression, comprising groups of chapters on geometric optics, wave optics and photonics Many more worked examples and problems Substantial revisions to chapters on Holography, Lasers and the Interaction of Light with Matter Solutions can be found at: www.booksupport.wiley.com 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. Free space optics is a telecommunications technique which is already being used for everyday exchange of information and has many advantages over other techniques (bandwidth, low cost, mobility of the equipment, security, etc.); within the next decade, it is likely to become an integral and essential part of data-processing architectures and telecommunications. A history of wireless optical telecommunications is given, together with a recapitulation of the application of the principles of electromagnetism to free-space optics. Coverage is also given to the transmitters and receivers of optical beams, which are the basis of any optical communication system. These devices were responsible for the first truly significant advances in the performance of these systems. Special attention is given to the problems associated with the propagation of photons, both in the presence and absence of obstacles, since these are key issues in gaining an understanding of future telecommunication systems based on wireless optics. Finally, the authors consider standards, as well as safety and confidentiality issues. A beloved introductory physics textbook, now including exercises and an answer key, accessibly explains electromagnetism, optics, and quantum mechanics R. Shankar is a well-known physicist and contagiously enthusiastic educator, whose popular online introductory-physics video lectures have been viewed over a million times. In this second book based on his online courses, Shankar explains electromagnetism, optics, and quantum mechanics, developing the basics and reinforcing the fundamentals. With the help of problem sets and answer keys, students learn about the most interesting findings of today's research while gaining a firm foundation in the principles and methods of physics. Benefits of book which distinguish it from others: • 100% Updated With 2022 Paper-1 & 2 Fully Solved • Extensive Practice With 10 Sample Question Papers • 100% Exam Readiness With "highly Probable" SQPs (with a success rate of more than

87% in 2022) • Crisp Revision With Mind Maps, Mnemonics & Appendix • Valuable Exam Insights With Subjective Trend Analysis. In this text, scientists provide a detailed description of the physical events that occur when light interacts with tissue. Their work emphasizes the optical response of tissue during treatment procedures or diagnostic applications of laser light. Supported by numerous illustrations, chapters present methods for estimating tissue optical properties from measurements of reflection and transmission in addition to methods for measuring temperature, thermal properties and rate constants. A discussion on the applications of optical and thermal tissue interactions to various medical problems is included. This thoroughly revised and updated text, now in its second edition, is primarily intended as a textbook for undergraduate students of Physics. The book provides a sound understanding of the fundamental concepts of optics adopting an integrated approach to the principles of optics. It covers the requirements of syllabi of undergraduate students in Physics and Engineering in Indian Universities. The book includes a wide range of interesting topics such as Fermat's principle, geometrical optics, dispersion, interference, diffraction and polarization of light waves, optical instruments and lens aberrations. It also discusses electromagnetic waves, fundamentals of vibrations and wave motion. The text explains the concepts through extensive use of line drawings and gives full derivations of essential relations. The topics are dealt with in a well-organized sequence with proper explanations along with simple mathematical formulations. New to the SECOND Edition • Incorporates two new chapters, i.e., 'Fundamentals of Vibrations', and 'Wave Motion' • Includes several worked-out examples to help students reinforce their comprehension of theory • Provides Formulae at a Glance and Conceptual Questions with their answers for quick revision

KEY FEATURES • Provides several Solved Numerical Problems to help students comprehend the concepts with ease • Includes Multiple Choice Questions and Theoretical Questions to help students check their understanding of the subject matter • Contains unsolved Numerical Problems with answers to build problem-solving skills

In the thirty-seven years that have gone by since the first volume of Progress in Optics was published, optics has become one of the most dynamic fields of science. At the time of inception of this series, the first lasers were only just becoming operational, holography was in its infancy, subjects such as fiber optics, integrated optics and optoelectronics did not exist and quantum optics was the domain of only a few physicists. The term photonics had not yet been coined. Today these fields are flourishing and have become areas of specialisation for many science and engineering students and numerous research workers and engineers throughout the world. Some of the advances in these fields have been recognized by awarding Nobel prizes to seven physicists in the last twenty years. The volumes in this series which have appeared up to now contain nearly 190 review articles by distinguished research workers, which have become permanent records for many important developments. They have helped optical scientists and optical engineers to stay abreast of their fields. There is no sign that developments in optics are slowing down or becoming less interesting.

- Gaussian apodization and beam propagation
- Electromagnetically-induced transparency
- Three-dimensional electromagnetic fields
- Quantum cryptography
- Optical quantum cloning

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introduction and offers solutions to the vast majority of contact lens optics problems likely to be encountered in practice. This edition has been thoroughly updated and contains integral coverage of soft lenses, information on the latest corneal measuring techniques, and expanded coverage of astigmatism and corneal toricity. It includes a new chapter on presbyopia and separate treatment of orthokeratology. Also included on the CD-ROM, is a set of invaluable computer programs, which allow the users to bypass tedious calculations in arriving at best fits. Offers solutions to the vast majority of contact lens optics problems Includes a companion CD-ROM with calculators to resolve fitting problems Revised, expanded, and updated computer programs on CD-ROM New two-color design throughout Color plate section Integral coverage of soft and RGP lenses In-depth information on mean thickness and harmonic mean thickness Discussion of the latest corneal measuring techniques Wavefront aberrations Soft toric lenses discussed in detail New chapter on presbyopia correction and soft lens bifocal design Coverage of orthokeratology and other cutting-edge techniques Fiber optics is the hottest topic in communications and this book from the world's leading experts clearly lays out all the details of optical communications engineering * Essential technical guide and solutions kit for the super-fast, super-broad fiber systems and devices powering the fastest-growing communications infrastructure * Methods for generating above peak performance * Clear explanations and answers to tough challenges for WDM, DWDM, amplifiers, solitons, and other key technologies Optics and Modern Physics for JEE (Advanced), a Cengage Exam Crack Series® product, is designed to help aspiring engineers focus on the subject of physics from two standpoints: To develop their caliber, aptitude, and attitude for the engineering field and profession. To strengthen their grasp and understanding of the concepts of the subjects of study and their applicability at the grassroots level. Each book in this series approaches the subject in a very conceptual and coherent manner. While its illustrative, solved examples facilitate easy mastering of the concepts and their applications, an array of solved problems exposes the students to a variety of questions that they can expect in the examination. The coverage and features of this series of books make it highly useful for all those preparing for JEE Main and Advanced and aspiring to become engineers. The Fiber Optic Reference Guide offers readers a solid understanding of the principles of fiber optic technology, especially as it relates to telecommunications, from its early days to developing future trends. Using a minimum of jargon and a wealth of illustrations, this book provides the underlying principles of fiber optics as well as essential practical applications. The third edition is updated to include expanded sections on light emitters, semiconductor optical amplifiers, Bragg gratings, and more systems design considerations. Fiber optics plays a key role in communications, as well as in broadcast and cable systems. Engineers working with fiber optics as well as newcomers to the industry will find the third edition of this reference guide invaluable. It will help the reader develop a solid understanding of the underlying principles of this rapidly changing technology as well as its essential practical applications. The text is thoroughly indexed and illustrated. This book addresses fabrication as well as characterization and modeling of semiconductor nanostructures in the optical regime, with a focus on nonlinear effects. The visible range as well as near and far infrared spectral region will be considered with a view to different envisaged applications. The book covers the current key challenges of the research in the area, including: exploiting new material platforms, fully extending the device operation into the nonlinear regime, adding re-configurability to the envisaged devices and proposing new modeling tools to help in conceiving new functionalities. • Explores several topics in the field of semiconductor nonlinear nanophotonics, including fabrication, characterization and modeling of semiconductor nanostructures in the optical regime, with a focus on nonlinear effects • Describes

the research challenges in the field of optical metasurfaces in the nonlinear regime • Reviews the use and achievements of all-dielectric nanoantennas for strengthening the nonlinear optical response • Describes both theoretical and experimental aspects of photonic devices based on semiconductor optical nanoantennas and metasurfaces • Gathers contributions from several leading groups in this research field to provide a thorough and complete overview of the current state of the art in the field of semiconductor nonlinear nanophotonics

Costantino De Angelis has been full professor of electromagnetic fields at the University of Brescia since 1998. He is an OSA Fellow and has been responsible for several university research contracts in the last 20 years within Europe, the United States, and Italy. His technical interests are in optical antennas and nanophotonics. He is the author of over 150 peer-reviewed scientific journal articles. Giuseppe Leo has been a full professor in physics at Paris Diderot University since 2004, and in charge of the nonlinear devices group of MPQ Laboratory since 2006. His research areas include nonlinear optics, micro- and nano-photonics, and optoelectronics, with a focus on AlGaAs platform. He has coordinated several research programs and coauthored 100 peer-reviewed journal articles, 200 conference papers, 10 book chapters and also has four patents.

Dragomir Neshev is a professor in physics and the leader of the experimental photonics group in the Nonlinear Physics Centre at Australian National University (ANU). His activities span over several branches of optics, including nonlinear periodic structures, singular optics, plasmonics, and photonic metamaterials. He has coauthored 200 publications in international peer-reviewed scientific journals.

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Description of the product: •100% Updated with Fully Solved April 2023 Papers •Extensive Practice: •No. of Questions Gen. Studies English Mathematics 1100+ 600+ 1300+ •Crisp Revision with Smart Mind Maps •Valuable Exam Insights with Expert Tips to crack NDA-NA in first attempt •Concept Clarity with Detailed Explanations •100% Exam Readiness with 5 Years Chapter-wise Trend Analysis (2019-2023)

The popular optics review manual, Last-Minute Optics, has been revised and updated into a second edition. This unique resource boils down the overwhelming subject matter of clinical optics and refraction, helping the ophthalmologist cover the essentials in a single review manual. The content is based upon the practical experience of two clinically active experts who lecture on ophthalmic optics around the world. Intended for readers with a background in classical electromagnetic theory, this book develops the basic principles that underlie nonlinear optical phenomena in matter. It begins with a discussion of linear wave propagation in dispersive media, moves into weak nonlinearities which can be discussed in a perturbative manner, then it examines strong nonlinear effects (solitons, chaos). The emphasis is on the macroscopic description on nonlinear phenomena, within a semiclassical framework. Two new chapters cover surface optics and magneto-optic phenomena. The book is aimed at the student or researcher who is not a specialist in optics but needs an introduction to the principal concepts. This book is mostly based in an equation that was recently published. The equation is the general formula for adaptive optics mirrors, which was published in January 2021 - General mirror formula for adaptive optics, Applied Optics 60(2). The book addresses the introductory topics, the solution (general formula for adaptive optics mirrors), the implications, and the potential applications. Optical Path Theory: Fundamentals to freeform adaptive optics focuses on the

potential to find analytical close form solutions using optical path theory to solve and design adaptive optics systems, with a thorough introduction to the subject. The book moves into exploring optical systems in the plane. Step-by-step equations provide each of these systems to plot their waves, emphasising the mathematical derivations. With a mathematical presentation of concepts, this book is complete with details, problems, solutions, and a multitude of useful examples. Ideal for graduates in optics. Key Features - Provides an introduction of the three main axioms implemented in optical path theory - Includes worked examples and problems in each chapter - Presents codes and algorithms - Details the physical concepts and mathematical tools needed to understand eikonal and the closed form solution of stigmatic optical systems - Contains Mathematica throughout. The second edition maintains the standard of excellence established in the first edition, while adjusting the content to reflect changes in tissue optics and medical applications since 1995. The material concerning light propagation now contains new chapters devoted to electromagnetic theory for coherent light. The material concerning thermal laser-tissue interactions contains a new chapter on pulse ablation of tissue. The medical applications section now includes several new chapters on Optical Coherent Tomography, acoustic imaging, molecular imaging, forensic optics and nerve stimulation. A detailed overview is provided of the optical and thermal response of tissue to laser irradiation along with diagnostic and therapeutic examples including fiber optics. Sufficient theory is included in the book so that it is suitable for a one or two semester graduate or for senior elective courses. Material covered includes (1) light propagation and diagnostic application; (2) the thermal response of tissue and therapeutic application; (3) denaturation; and (4) ablation. The theory and applications provide researchers with sufficient detail that this volume will become the primary reference for laser-tissue interactions and medical applications. This book is written by dr. r.s. baghel, dr. sanjay kumar dr. vipin gupta and dr. anjani kumar.....

syllabus: physical optics and lasers b.sc. 2nd year paper-1st unit-1 interference of light: the principle of superposition, two-slit interference, coherence requirement for the sources, optical path retardations, lateral shift of fringes, rayleigh refractometer, and other applications. localized strings: thin films, applications for precision measurements for displacements. haidinger fringes: fringes of equal inclination, michelson interferometer, its application for precision determination of wavelength, wavelength difference, and the width of spectral lines. twyman green interference and its uses. intensity distribution in multiple beam interference, tolansky fringes, fabry-perrot interferometer, and etalon. unit-2 fresnel diffraction: fresnel half-period zones, plates, straight edge, rectilinear propagation. fraunhofer diffraction: diffraction at a slit, half-period zones, phasor diagram and integral calculus methods, the intensity distribution, diffraction at a circular aperture and a circular disc, resolution of images, rayleigh criterion, resolving power of telescope and microscopic systems, the outline of phase contrast microscopy. diffraction gratings: diffraction at n parallel slits, intensity distribution, plane diffraction grating, reflection grating and blazed gratings. concave grating and different mountings. resolving power of a grating comparison with resolving powers of prism and a fabry-perrot etalon. unit-3 polarization, double refraction in uniaxial crystals, nicol prism, polaroids, and retardation plates, babinet's compensator, analysis of polarised light, optical activity and fresnel's explanation, half shade, and biquartz polarimeters. matrix representation of plane-polarized waves, matrices for polarizers, retardation plates and rotators, application to simple systems. unit-4 laser system: purity of a spectral line, coherence length and coherence time, spatial coherence of a source, einstein's a and b coefficients, spontaneous and induced emissions, conditions for laser action, population inversion. application of lasers: pulsed lasers and tunable coherence and directionality, estimates of beam intensity;

temporal coherence, and spectral energy density. 'Clinical Optics and Refraction' contains 313 multiple choice questions and short answers mostly referenced by current versions of the Basic and Clinical Science Course (BCSC) book series by the American Academy of Ophthalmology (AAO) in testing the current knowledge of the residents in optics and refraction. Nonlinear optical (NLO) phenomena such as frequency conversion have played a key role in the development of photonic technologies. This thesis reports a detailed study of the molecular response of a large variety of push-pull organic compounds using the Second Harmonic Generation technique, which will serve as a starting point for the investigation at the macroscopic scale of azobenzene-based liquid crystalline polymeric films and their blends with highly efficient NLO chromophores. These materials are designed with the aim of exploiting their photoaddressability in order to tailor their nonlinear behaviour. The magnitude and symmetry of their NL response was successfully controlled via light irradiation and thermal treatments. Moreover, as a specific application, the recording of efficient NLO gratings was achieved. This fourth edition of a well-established textbook takes students from fundamental ideas to the most modern developments in optics. Illustrated with 400 figures, it contains numerous practical examples, many from student laboratory experiments and lecture demonstrations. Aimed at undergraduate and advanced courses on modern optics, it is ideal for scientists and engineers. The book covers the principles of geometrical and physical optics, leading into quantum optics, using mainly Fourier transforms and linear algebra. Chapters are supplemented with advanced topics and up-to-date applications, exposing readers to key research themes, including negative refractive index, surface plasmon resonance, phase retrieval in crystal diffraction and the Hubble telescope, photonic crystals, super-resolved imaging in biology, electromagnetically induced transparency, slow light and superluminal propagation, entangled photons and solar energy collectors. Solutions to the problems, simulation programs, key figures and further discussions of several topics are available at www.cambridge.org/lipson. Learn Wave Optics which is divided into various sub topics. Each topic has plenty of problems in an adaptive difficulty wise. From basic to advanced level with gradual increment in the level of difficulty. The set of problems on any topic almost covers all varieties of physics problems related to the chapter Wave Optics. If you are preparing for IIT JEE Mains and Advanced or NEET or CBSE Exams, this Physics eBook will really help you to master this chapter completely in all aspects. It is a Collection of Adaptive Physics Problems in Wave Optics for SAT Physics, AP Physics, 11 Grade Physics, IIT JEE Mains and Advanced , NEET & Olympiad Level Book Series Volume 27 This Physics eBook will cover following Topics for Wave Optics: 1. Interference of Light 2. Maxima & Minima 3. Young's Double Slit Experiment 4. Optical Path & YDSE 5. Modified YDSE 6. Diffraction 7. Polarization 8. Huygens Principle 9. Doppler's Shift 10. Chapter Test The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill. About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years. He has mentored over ten thousand students and continues mentoring in regular classroom coaching. The students from his class have made into IIT institutions including ranks in top 100. The main goal of this book is to enhance problem solving ability in students. Sir is having hope that you would enjoy this journey of learning physics! In case of query, visit www.physicsfactor.com or WhatsApp to our customer care number +91 7618717227 In the thirty-seven years that have gone by since the first volume of Progress in Optics was published, optics has become one of the most dynamic fields of science. At the time of inception of this series, the first lasers were only just becoming operational, holography was in its infancy, subjects such as fiber optics, integrated optics and

optoelectronics did not exist and quantum optics was the domain of only a few physicists. The term photonics had not yet been coined. Today these fields are flourishing and have become areas of specialisation for many science and engineering students and numerous research workers and engineers throughout the world. Some of the advances in these fields have been recognized by awarding Nobel prizes to seven physicists in the last twenty years. The volumes in this series which have appeared up to now contain nearly 190 review articles by distinguished research workers, which have become permanent records for many important developments. They have helped optical scientists and optical engineers to stay abreast of their fields. There is no sign that developments in optics are slowing down or becoming less interesting. - Gaussian apodization and beam propagation - Electromagnetically-induced transparency - Three-dimensional electromagnetic fields - Quantum cryptography - Optical quantum cloning This book provides a cutting-edge research overview on the latest developments in the field of Optics and Photonics. All chapters are authored by the pioneers in their field and will cover the developments in Quantum Photonics, Optical properties of 2D Materials, Optical Sensors, Organic Opto-electronics, Nanophotonics, Metamaterials, Plasmonics, Quantum Cascade lasers, LEDs, Biophotonics and biomedical photonics and spectroscopy. 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 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 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 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 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 III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference 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 Learn Ray Optics which is divided into various sub topics. Each topic has plenty of problems in an adaptive difficulty wise. From basic to advanced level with gradual increment in the level of difficulty. The set of problems on any topic almost covers all varieties of physics problems related to the chapter Ray Optics or Geometrical Optics. If you are preparing for IIT JEE Mains and Advanced or NEET or CBSE Exams, this Physics eBook will really help you to master this chapter completely in all aspects. It is a Collection of Adaptive Physics Problems in Ray Optics OR Geometrical Optics for SAT Physics, AP Physics, 11 Grade Physics, IIT JEE Mains and Advanced , NEET & Olympiad Level Book Series Volume 26 This Physics eBook will cover following Topics for Ray Optics: 1. Laws of Reflection 2. Image formation through plane mirror 3. Field of View 4. Angle of Deviation 5. Rotation of Mirror 6. Velocity Calculation in Plane Mirror 7. No. of Image Calculation 8. Focal Length of a

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The intention is to create this book to present physics as a most systematic approach to develop a good numerical solving skill. About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years. He has mentored over ten thousand students and continues mentoring in regular classroom coaching. The students from his class have made into IIT institutions including ranks in top 100. The main goal of this book is to enhance problem solving ability in students. Sir is having hope that you would enjoy this journey of learning physics! In case of query, visit www.physicsfactor.com or WhatsApp to our customer care number +91 7618717227

This book will cover the following Chapter(s): Ray Optics Wave Optics This book contains Basic Math for Physics, Vectors, Units and Measurements. It is divided into several subtopics, where it has levelwise easy, medium and difficult problems on every subtopic. It is a collection of more than 300 Adaptive Physics Problems for IIT JEE Mains and JEE Advanced, NEET, CBSE Boards, NCERT Book, AP Physics, SAT Physics & Olympiad Level questions. Key Features of this book: Sub-topic wise Questions with detailed Solutions Each Topic has Level -1 & Level-2 Questions Chapter wise Test with Level -1 & Level-2 Difficulty NCERT/BOARD Level Questions for Practice Previous Year Questions (JEE Mains) Previous Year Questions (JEE Advanced) Previous Year Questions (NEET/ CBSE) More than 300 Questions from Each Chapter

About Author Satyam Sir has graduated from IIT Kharagpur in Civil Engineering and has been teaching Physics for JEE Mains and Advanced for more than 8 years. He has mentored over ten thousand students and continues mentoring in regular classroom coaching. The students from his class have made into IIT institutions including ranks in top 100. The main goal of this book is to enhance problem solving ability in students. Sir is having hope that you would enjoy this journey of learning physics! In case of query, visit www.physicsfactor.com or whatsapp to our customer care number +91 7618717227

Telephone, telefax, email and internet - the key ingredient of the inner workings is the conduit: the line which is designed to carry massive amounts of data at breakneck speed. In their data-carrying capacity optical fiber lines beat other technologies (copper cable, microwave beacons, satellite links) hands down, at least in the long haul. This book is a comprehensive source about optical fibers: Their structure, their light-guiding mechanism, their material and manufacture, their use. Several effects tend to degrade the signal as it travels down the fiber: they are spelled out in detail. Nonlinear processes are given due consideration for a twofold reason: On one hand they are fundamentally different from the more familiar processes in electrical cable. On the other hand, they form the basis of particularly interesting and innovative applications, provided they are understood well enough. A case in point is the use of so-called solitons, i.e. special pulses of light which have the wonderful property of being able to heal after perturbation. The book starts with the physical basics of ray and beam optics, explains fiber structure and the functions of optical elements, and continues to the forefront of applications. The state of the art of high speed data transmission will be described, and the use of fiber optic sensors in metrology

is treated. The book is written in a pedagogical style so that students of both physics and electrical engineering, as well as technicians and engineers involved in optical technologies, will benefit. Fiber optics is the hottest topic in communications and this book from the world's leading experts clearly lays out all the details of optical communications engineering * Essential technical guide and solutions kit for the super-fast, super-broad fiber systems and devices powering the fastest-growing communications infrastructure * Methods for generating above peak performance * Clear explanations and answers to tough challenges for WDM, DWDM, amplifiers, solitons, and other key technologies

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