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Solutions - Optics - Ajoy Ghatak - 1st Edition

Ajoy Ghatak is an Indian physicist and author of physics textbooks.Professor Ghatak has written over 170 research papers and more than 20 books. His undergraduate text on Optics has been translated to Chinese and Persian and his monograph on Inhomogeneous Optical Waveguides (coauthored with Professor Sodha) has been translated to Chinese and Russian. In 1995, he was elected Fellow of the Optical S

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Ajoy Ghatak has written over 170 research papers and more than 20 books (see Selected Publications below). His undergraduate textbook on Optics has been translated to Chinese and Persian and his monograph on Inhomogeneous Optical Waveguides (coauthored with Professor Sodha) has been translated to Chinese and Russian.

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This book covers fundamental principles and wide array of numerical based problems, patterned as per FAQs in university exams. Answers follow the problems section by detailed conceptual explanations and student friendly step-wise solution.

Textbook on the physical principles of optical fibers - for advanced undergraduates and graduates in physics or electrical engineering.

Ever since their invention in 1960, lasers have assumed tremendous importance in the fields of science, engineering and technology because of their use both in basic research and in various technological applications. Lasers: Theory and Applications 2nd Edition will provide a coherent presentation of the basic physics behind the working of the laser along with some of their most important applications. Numerical examples are scattered throughout the book for helping the student gain a better appreciation of the concepts and problems at the end of each chapter and provides the student a better understanding of the basics and help in applying the concepts to practical situations. This book serves as a text in a course on lasers and their applications for students majoring in various disciplines such as Physics, Chemistry and Electrical Engineering.

Intended for senior undergraduate students, a comprehensive account of optical electronics includes the basic principles concerning electromagnetic waves, laser theory, optical wave guides, fiber and integrated optics.

An understanding of quantum mechanics is vital to all students of physics, chemistry and electrical engineering, but requires a lot of mathematical concepts, the details of which are given with great clarity in this book. Various concepts have been derived from first principles, so it can also be used for self-study. The chapters on the JWKB approximation, time-independent perturbation theory and effects of magnetic field stand out for their clarity and easy-to-understand mathematics. Two complete chapters on the linear harmonic oscillator provide a very detailed discussion of one of the most fundamental problems in quantum mechanics. Operator algebra is used to show the ease with which one can calculate the harmonic oscillator wave functions and study the evolution of the coherent state. Similarly, three chapters on angular momentum give a detailed account of this important problem. Perhaps the most attractive feature of the book is the excellent balance between theory and applications and the large number of applications in such diverse areas as astrophysics, nuclear physics, atomic and molecular spectroscopy, solid-state physics, and quantum well structures.

The Solutions To Some Of The Problems In Our Text Book Introduction To Fiber Optics Were Given In The Book Itself. However, There Has Been A Demand For The Solutions Of Unsolved Problems In The Book. This Manual Provides Complete Solutions To The Unsolved Problems Given In The Book. Some Of The Solutions Require Plotting Which Have Also Been Provided Here.

The propagation of electromagnetic waves in "square-law" media, i.e., media characterized by a quadratic spatial variation of the dielectric constant, has been a favorite subject of investigation in electromagnetic theory. However, with the recent fabrication of glass fibers with a quadratic radial variation of the dielectric constant and the application of such fibers to optical imaging and communications, this subject has also assumed practical importance. Comparison of experimental results on propagation, resolution, and pulse distortion in such inhomogeneous waveguides with theory has put the field on a sound base and spurred further work. The present book aims at presenting a unified view of important aspects of our knowledge of inhomogeneous optical waveguides. A brief discussion of homogeneous dielectric waveguides is unavoidable, since it forms a basis for the appreciation of inhomogeneous waveguides. A short course based on some chapters of this book was offered to graduate students at IIT Delhi and was well received. We consider that despite the unavoidable mathematical nature of the present book, the comparison of experimental results with theory throughout and the description of fabrication technology (Appendixes A and B) should make its appeal universal. The authors are grateful to Dr. K. Thyagarajan for writing most of Chapter 9 and to their colleagues Dr. I. C. Goyal, Dr. B. P. Pal, and Dr. A.

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