

R K Gaur S L Gupta Engineering Physics

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Physics for Engineers MODERN PHYSICS FOR SCIENTISTS AND ENGINEERS FUNDAMENTALS OF OPTICS, SECOND EDITION APPLIED OPTICS Innovative Applications of Nanowires for Circuit Design Neo-Thinking on Ganges-Brahmaputra Basin Geomorphology Proceedings of the 8th International Conference on Industrial Engineering Engineering Physics for BSc and BE Students International Books in Print Indian Books Indian Books in Print Engineering Physics American Men and Women of Science Engineering Physics, /e National Catalogue of University Level Books, 1971 Indian National Bibliography Journal of the Institution of Electronics and Telecommunication Engineers Bulletin of the Institution of Engineers (India). Who's who in Technology Today: Index Who's who in Technology Today M R Srinivasan R. R. YADAV SINGH, DEVRAJ DEVRAJ SINGH Raj, Balwinder Balai Chandra Das Andrey A. Radionov S. L. Gupta R. K. Gaur P. V. Naik Institution of Electronics and Telecommunication Engineers (India) Institution of Engineers (India) Physics for Engineers MODERN PHYSICS FOR SCIENTISTS AND ENGINEERS FUNDAMENTALS OF OPTICS, SECOND EDITION APPLIED OPTICS Innovative Applications of Nanowires for Circuit Design Neo-Thinking on Ganges-Brahmaputra Basin Geomorphology Proceedings of the 8th International Conference on Industrial Engineering Engineering Physics for BSc and BE Students International Books in Print Indian Books Indian Books in Print Engineering Physics American Men and Women of Science Engineering Physics, /e National Catalogue of University Level Books, 1971 Indian National Bibliography Journal of the Institution of Electronics and Telecommunication Engineers Bulletin of the Institution of Engineers (India). Who's who in Technology Today: Index Who's who in Technology Today M R Srinivasan R. R. YADAV SINGH, DEVRAJ DEVRAJ SINGH Raj, Balwinder Balai Chandra Das Andrey A. Radionov S. L. Gupta R. K. Gaur P. V. Naik Institution of Electronics and Telecommunication Engineers (India) Institution of Engineers (India)

physics for engineers is a text book for students studying a course in engineering the book has been written according to the syllabi prescribed in the various universities of karnataka but it can be profitably used by the students of other indian universities as well engineering is generally regarded as applied physics it is the purpose of the book to present the principles and

concepts of physics as relevant to an engineer the topics covered in the book are drawn from acoustics optics solid state physics materials science heat thermodynamics electricity and magnetism some of the salient features of the book are lucid style clarity in the presentation of concepts contains numerous problems and solved examples has more than 300 figures

modern physics for scientists and engineers provides thorough understanding of concepts and principles of modern physics with their applications the various concepts of modern physics are arranged logically and explained in simple reader friendly language for proper understanding of the subject a large number of problems with their step by step solutions are provided for every concept university problems have been included in all chapters a set of theoretical numerical and multiple choice questions at the end of each chapter will help readers to understand the subject this textbook covers broad variety of topics of interest in modern physics the special theory of relativity quantum mechanics dual nature of particle as well as schrödinger s equations with applications atomic physics molecular physics nuclear physics solid state physics superconductivity x rays lasers optical fibres and motion of charged particle in electromagnetic fields the book is designed as a textbook for the undergraduate students of science and engineering

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

applied optics is designed to cater to the need of application part of optics for undergraduate students in physics and engineering in indian universities the book covers the applications of optics for lasers optical fibres holography special theory of relativity particle nature of radiations and photoconductivity and photovoltaics 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 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 provides formulae at a glance and conceptual questions with their answers for quick revision

nanowires are an important sector of circuit design whose applications in very large scale integration design vlsi have huge impacts for bringing revolutionary advancements in nanoscale devices circuits and systems due to improved electronic properties of the nanowires nanowires are potential devices for vlsi circuits and system applications and are highly preferred in novel nanoscale devices due to their high mobility and high driving capacity although the knowledge and resources for the fabrication of nanowires is currently limited it is predicted that with the advancement of technology conventional fabrication flow can be used for nanoscale devices specifically nanowires innovative applications of nanowires for circuit design provides relevant theoretical frameworks that include device physics modeling circuit design and the latest developments in experimental fabrication in the field of nanotechnology the book covers advanced modeling concepts of nanowires along with their role as a key enabler for innovation in glsi devices circuits and systems while highlighting topics such as design simulation types and applications and performance analysis of nanowires this book is ideally intended for engineers practitioners stakeholders academicians researchers and students interested in electronics engineering nanoscience and nanotechnology

this book explores the latest advances in our understanding of the evolution of the ganga brahmaputra delta examining the damodar basin bhagirathi hooghly basin and jalangi basin from historical quantitative and applied geomorphology perspectives the evolution of the ganga brahmaputra delta is highly complex and remains poorly understood to address that gap this

edited volume presents 11 research papers the first seven chapters focus on the pure geomorphology and geohydrology of the delta while the remaining four examine its applied geomorphological aspects the book offers a valuable guide for geologists geographers hydrologists landscape ecologists environmentalists engineers planners and policy makers

this book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in russia and eastern europe a broad range of topics and issues in modern engineering is discussed including the dynamics of machines and working processes friction wear and lubrication in machines surface transport and technological machines manufacturing engineering of industrial facilities materials engineering metallurgy control systems and their industrial applications industrial mechatronics automation and robotics this book gathers selected papers presented at the 8th international conference on industrial engineering icie held in sochi russia in may 2022 the authors are experts in various fields of engineering and all papers have been carefully reviewed given its scope this book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates

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