

Engineering Physics By Gupta

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Engineering Physics - Hitendra K. Malik 2009

Multiple Choice Questions in Physics -

Mathematical Physics, 4th Edition - B.D. Gupta 2004

Mathematics is an essential ingredient in the education of a student of mathematics or physics of a professional physicist, indeed in the education of any professional scientist or engineer. The purpose of Mathematical Physics is to provide a comprehensive study of the mathematics underlying theoretical physics at the level of graduate and postgraduate students and also have enough depth for others interested in higher level mathematics relevant to specialized fields. It is also intended to serve the research scientist or engineer who needs a quick refresher course in the subject. The Fourth Edition of the book has been thoroughly revised and updated keeping in mind the requirements of students and the latest UGC syllabus.

Engineering Physics: Vol. 1 -

Bridge Course In Mathematical Physics - Biplab Das Gupta

When a student begins with the course of Class XI he/she is bound to encounter difficulty at initial level of study due to huge gap in the syllabus of secondary and higher secondary stage. This book will serve as a Bridge course for all students moving from class X to class XI, who will take the course of Physics. This book can act as a Prerequisite for learning Physics in class XI and XII. Since this book has been aimed at the students to cover the essential mathematics Calculus & Vectors in quick time, the number of problems and questions has been restricted.

Stress has been given to develop the fine link or connection between mathematics and physics and application of mathematical ideas in understanding Physics. This book will also be useful for those students who are preparing for NEET or similar Biological examinations but do not have mathematics at 10+2, but have Physics in their course of study.

Art & Practice of Creative Visualization - Ophiel 2001-08-01

There's more to creative visualization than meets the eye! In this groundbreaking volume, first published in 1967, Ophiel lays out the 10 Laws of Creative Visualization. Once understood, they are as simple and as real as the laws of gravity or magnetism. In other words, they work. Ophiel tells us how to do -- and undo -- the magic of visualization. Whether we want a new job, a new house, a new relationship, or a warm coat -- we can manifest that which will create happiness and comfort in our lives. And, should we discover that we've gotten it wrong -- that we neither want nor need what we've visualized, there are techniques to undo what has been done. Along with the theory, Ophiel offers plenty of practice in working with symbols, visualizing physical reality, making a "treasure chart," and understanding the role of emotion in visualization. Work with the symbols in the book and learn how to create your own. This is practical metaphysics at its best. Love spells are forever, but if you want the object of your affection to go away, Ophiel tells you how to do that as well.

Engineering Physics - R. K. Gaur 1987

Numerical Methods - Rajesh Kumar Gupta 2019-05-09

Written in an easy-to-understand manner, this

comprehensive textbook brings together both basic and advanced concepts of numerical methods in a single volume. Important topics including error analysis, nonlinear equations, systems of linear equations, interpolation and interpolation for Equal intervals and bivariate interpolation are discussed comprehensively. The textbook is written to cater to the needs of undergraduate students of mathematics, computer science, mechanical engineering, civil engineering and information technology for a course on numerical methods/numerical analysis. The text simplifies the understanding of the concepts through exercises and practical examples. Pedagogical features including solved examples and unsolved exercises are interspersed throughout the book for better understanding.

Physics - Kenneth Robert Atkins 1965

Applied Physics for Engineers - Mehta Neeraj
2011-07-30

This book is intended as a textbook for the first-year undergraduate engineering students of all disciplines. Key features: simple and clear diagrams throughout the book help students in understanding the concepts clearly; numerous in-chapter solved problems, chapter-end unsolved problems (with answers) and review questions assist students in assimilating the theory comprehensively; a large number of objective type questions at the end of each chapter help students in testing their knowledge of the theory.

Modern Engineering Physics - A S Vasudeva
2012-07

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

Health Monitoring Systems - Rajarshi Gupta
2019-11-21

Remote health monitoring using wearable sensors is an important research area involving several key steps: physiological parameter

sensing and data acquisition, data analysis, data security, data transmission to caregivers, and clinical intervention, all of which play a significant role to form a closed loop system. Subject-specific behavioral and clinical traits, coupled with individual physiological differences, necessitate a personalized healthcare delivery model for around-the-clock monitoring within the home environment. Cardiovascular disease monitoring is an illustrative application domain where research has been instrumental in enabling a personalized closed-loop monitoring system, which has been showcased in this book. Health Monitoring Systems: An Enabling Technology for Patient Care provides a holistic overview of state-of-the-art monitoring systems facilitated by Internet of Things (IoT) technology. The book lists out the details on biomedical signal acquisition, processing, and data security, the fundamental building blocks towards an ambulatory health monitoring infrastructure. The fundamentals have been complimented with other relevant topics including applications which provide an in-depth view on remote health monitoring systems. Key Features: Presents examples of state-of-the-art health monitoring systems using IoT infrastructure Covers the full spectrum of physiological sensing, data acquisition, processing, and data security Provides relevant example applications demonstrating the benefits of technological advancements aiding disease prognosis This book serves as a beginner's guide for engineering students of electrical and computer science, practicing engineers, researchers, and scientists who are interested in having an overview of pervasive health monitoring systems using body-worn sensors operating outside the hospital environment. It could also be recommended as a reference for a graduate or master's level course on biomedical instrumentation and signal processing.

Engineering Physics - D. K. Bhattacharya 2015
Engineering Physics is primarily designed to serve as a textbook for undergraduate students of engineering. It will also serve as a reference book for undergraduate science (B Sc) students, scientists, technologists, and practitioners of various branches of engineering. The book thoroughly explains all relevant and important topics in an easy-to-understand

manner. Beginning with a detailed discussion on optics, the book goes on to discuss waves and oscillations, architectural acoustics, and ultrasonics in Part I. The basic principles of classical mechanics, relativistic mechanics, quantum mechanics, and statistical mechanics are included under Part II. Electromagnetism-related topics, namely dielectric properties, magnetic properties, and electromagnetic field theory are explained under Part III. Part IV provides an in-depth treatment of topics such as X-rays, crystal physics, band theory of solids, and semiconductor physics. It also covers conducting and superconducting materials. Topics such as nuclear physics, radioactivity, and new engineering materials and nanotechnology are presented in the last section of the book. The text also contains useful appendices on SI units, important physical and lattice constants, periodic table, and properties of semiconductors and relevant compounds for ready reference. Plenty of solved examples, well-labelled illustrations and chapter-end exercises are provided in every chapter for better understanding of the concepts and their applications.

Krishina's Engineering Physics; Volume III; Optics; 2001 -

Engineering Physics; Volume IV; Wave Motion and Sound -

Engineering Physics -

Metallurgical Engineering Handbook - O. P. Gupta 2018-08-31

This is a comprehensive book for quick reference and review of metallurgical topics in an objective type question/answer format. Contains over 6,000 questions with answers. Features Can be used as a review for all types of examinations
Selected Problems in Physics -

Engineering Physics for BSc and BE Students - S. L. Gupta 1988

Engineering Materials - K.M. Gupta 2014-11-13
Introduces Emerging Engineering Materials
Mechanical, materials, and production engineering students can greatly benefit from
Engineering Materials: Research, Applications and Advances. This text focuses heavily on

research, and fills a need for current information on the science, processes, and applications in the field. Beginning with a brief overview, the book provides a historical and modern perspective on material science, and describes various types of engineering materials. It examines the industrial process for emerging materials, determines practical use under a wide range of conditions, and establishes what is needed to produce a new generation of materials. Covers Basic Concepts and Practical Applications The book consists of 18 chapters and covers a variety of topics that include functionally graded materials, auxetic materials, whiskers, metallic glasses, biocomposite materials, nanomaterials, superalloys, superhard materials, shape-memory alloys, and smart materials. The author outlines the latest advancements, including futuristic plastics, sandwich composites, and biodegradable composites, and highlights special kinds of composites, including fire-resistant composites, marine composites, and biomimetics. He also factors in current examples, future prospects, and the latest research underway in materials technology. Contains approximately 160 diagrams and 85 tables
Incorporates examples, illustrations, and applications used in a variety of engineering disciplines Includes solved numerical examples and objective questions with answers
Engineering Materials: Research, Applications and Advances serves as a textbook and reference for advanced/graduate students in mechanical engineering, materials engineering, production engineering, physics, and chemistry, and relevant researchers and practicing professionals in the field of materials science.

Proceedings of the International Conference on Atomic, Molecular, Optical & Nano Physics with Applications - Vinod Singh 2022-03-14

This book highlights the proceedings of the International Conference on Atomic, Molecular, Optical and Nano-Physics with Applications (CAMNP 2019), organized by the Department of Applied Physics, Delhi Technological University, New Delhi, India. It presents experimental and theoretical studies of atoms, ions, molecules and nanostructures both at the fundamental level and on the application side using advanced technology. It highlights how modern tools of

high-field and ultra-fast physics are no longer merely used to observe nature but can be used to reshape and redirect atoms, molecules, particles or radiation. It brings together leading researchers and professionals on the field to present and discuss the latest finding in the following areas, but not limited to: Atomic and Molecular Structure, Collision Processes, Data Production and Applications Spectroscopy of Solar and Stellar Plasma Intense Field, Short Pulse Laser and Atto-Second Physics Laser Technology, Quantum Optics and applications Bose Einstein condensation Nanomaterials and Nanoscience Nanobiotechnology and Nanophotonics Nano and Micro-Electronics Computational Condensed Matter Physics Engineering Physics Practical -

Krishan's Engineering Physics Vol-2 -

The Classical Stefan Problem - S.C. Gupta 2003-10-22

This volume emphasises studies related to classical Stefan problems. The term "Stefan problem" is generally used for heat transfer problems with phase-changes such as from the liquid to the solid. Stefan problems have some characteristics that are typical of them, but certain problems arising in fields such as mathematical physics and engineering also exhibit characteristics similar to them. The term "classical" distinguishes the formulation of these problems from their weak formulation, in which the solution need not possess classical derivatives. Under suitable assumptions, a weak solution could be as good as a classical solution. In hyperbolic Stefan problems, the characteristic features of Stefan problems are present but unlike in Stefan problems, discontinuous solutions are allowed because of the hyperbolic nature of the heat equation. The numerical solutions of inverse Stefan problems, and the analysis of direct Stefan problems are so integrated that it is difficult to discuss one without referring to the other. So no strict line of demarcation can be identified between a classical Stefan problem and other similar problems. On the other hand, including every related problem in the domain of classical Stefan problem would require several volumes for their description. A suitable compromise has to be

made. The basic concepts, modelling, and analysis of the classical Stefan problems have been extensively investigated and there seems to be a need to report the results at one place. This book attempts to answer that need. Basics of Engineering Physics - Nisha Gupta 2011

Mathematical Methods for Physics and Engineering - K. F. Riley 2006-03-13

The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, www.cambridge.org/9780521679718.

Physics for Engineers - M R Srinivasan 1996
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.

Engineering Thermodynamics - Gupta S.K. 2013
Continuing the tradition of the best selling

textbooks, this first edition "Engineering Thermodynamics" is a comprehensive reference to the broad spectrum of thermodynamics, encapsulating the theoretical and practical aspects of the field. The author addresses a myriad of topics, covering both traditional and innovative approaches. Additionally, the book includes numerous tables

Modern Hydrology and Sustainable Water Development - S. K. Gupta 2011-06-13

The material of this book will derive its scientific underpinning from basics of mathematics, physics, chemistry, geology, meteorology, engineering, soil science, and related disciplines and will provide sufficient breadth and depth of understanding in each sub-section of hydrology. It will start with basic concepts: Water, its properties, its movement, modelling and quality. The distribution of water in space and time. Water resource sustainability. Chapters on 'global change' and 'water and ethics' aim respectively to emphasize the central role of hydrological cycle and its quantitative understanding and monitoring for human well being and to familiarize the readers with complex issues of equity and justice in large scale water resource development process. Modern Hydrology for Sustainable Development is intended not only as a textbook for students in earth and environmental science and civil engineering degree courses, but also as a reference for professionals in fields as diverse as environmental planning, civil engineering, municipal and industrial water supply, irrigation and catchment management.

Objective Pre Engineering Chemistry -

Engineering Physics - R.S. Baghel 2021-07-25

Dear students, I am extremely happy to come out with the first edition of "Engineering physics" for you. The topics within the chapters have been arranged in a proper sequence to ensure smooth flow of the subject. I am sure that this book will complete all your needs for this subject. I am thankful to Dr Sudhir Kumar (CCS Univ.Meerut), Shri Naresh Kumar (Registrar, Govt. Engg. College Chandpur Bijnor), Dr R.K.Shukla (Prof.& Head) Department of Physics Harcourt Buttlar Technical University Kanpur (up), Dr B.P.Singh (Prof.& Head) Department of Physics Institute of basic science khandari campus Agra, Dr Ashok

Kumar (Prof.& Ex.Director) HBTU Kanpur, Dr Satendra Sharma (Prof. & Dean in science) Yobe State University Naizariya, Dr Pradeep Kumar (Principal) DAV (PG) Budhana Muzzarfarnagar up, Dr Satyavir Singh (Asso.Prof.& Head) Dept.of Chemistry DAV(PG) Budhana M.Nagar, Dr P.S.Negi (Prof.& Head) Meerut College Meerut, Prof. Ankit Kumar Dept.of Civil REC Bijnor, Prof.Sudhir Goswami Deptt..of IT REC Bijnor, Dr Pravesh Kumar, Asst.Prof.REC Bijnor, Dr Hemant Kumar, Asst.Prof Deptt. Of Physics, REC Bijnor, Dr Anjani Kumar IIT Kanpur Deptt..of Physics, Dr S.K Sharma Professor of Physics HBTU Kanpur, Er K.K.Singh (Er.RBI Patna), Er Sandeep Maheswary (Offset Printing Press) Software Er Vinay Baghel, Netherland, Dr V K Gupta (Prof. Physics) Dr Anil Kumar Sharma (Prof .Botany), Dr O.P.Singh (Prof .Botany), Dr Vikas Katoch (Prof & Head) Deptt..of Physics RKGIT Ghazibad, Dr Sangeeta Chaudhary (Prof.& Head) Deptt..of Sanskrit DAV (PG) Budhana M.Nagar, Dr R.Jha (Prof.&Head) Sky Line Institute Greater Noida, Elder Brother Shri R.P. Singh (Railway Engg. Deptt.), Younger Brother K.P Singh, Prof. Ajay Kumar Yadav Computer science deptt. Pune .and all my dear students. I am also thankful to the staff members of Uttaraksh Publication and others for their effects to make this book as good as it is. I am also thankful to my Family members and relatives for their Patience and encouragement. Author Khanna's Multichoice Questions & Answers in Metallurgical Engineering - O.P. Gupta 2017 This book is meant for diploma & degree student of metallurgical engineering for their academic programs as well as for various competitive examination for securing jobs. This book has been structured in three section. First section contains multiple choice type questions of various subjects of metallurgical engineering. Second section contains chapter wise question of GATE (Graduate Aptitude Test in Engineering) from 1991 to 2016. Third section contains SHORT QUESTIONS & ANSWERS in METALLURGICAL ENGINEERING. Fourth section contains APPENDICES containing Glossary of terms related to Metallurgical Engineering and Q&A of GATE-2017. This book has been designed to serve as "Hand Book of Metallurgical Engineering" which will be useful for various competitive examinations for recruitment in various public sector & Private Sector companies

as well as for GATE Examination. Questions have been arranged subject wise and answers are given at the bottom of the page.

Introduction to Nuclear and Particle Physics - Saverio D'Auria 2019-03-04

This textbook fills the gap between the very basic and the highly advanced volumes that are widely available on the subject. It offers a concise but comprehensive overview of a number of topics, like general relativity, fission and fusion, which are otherwise only available with much more detail in other textbooks. Providing a general introduction to the underlying concepts (relativity, fission and fusion, fundamental forces), it allows readers to develop an idea of what these two research fields really involve. The book uses real-world examples to make the subject more attractive and encourage the use of mathematical formulae. Besides short scientists' biographies, diagrams, end-of-chapter problems and worked solutions are also included. Intended mainly for students of scientific disciplines such as physics and chemistry who want to learn about the subject and/or the related techniques, it is also useful to high school teachers wanting to refresh or update their knowledge and to interested non-experts.

Mechanics of Composite Materials and Structures - Madhujit Mukhopadhyay 2005

This book is an attempt to present an integrated and unified approach to the analysis of FRP composite materials which have a wide range of applications in various engineering structures—offshore, maritime, aerospace and civil engineering; machine components; chemical engineering applications, and so on.

Advanced Engineering Mathematics, 22e - Dass H.K.

"Advanced Engineering Mathematics" is written for the students of all engineering disciplines. Topics such as Partial Differentiation, Differential Equations, Complex Numbers, Statistics, Probability, Fuzzy Sets and Linear Programming which are an important part of all major universities have been well-explained. Filled with examples and in-text exercises, the book successfully helps the student to practice and retain the understanding of otherwise difficult concepts.

Numerical Methods for Engineers - Santosh K Gupta 1995

This Book Is Intended To Be A Text For Either A First Or A Second Course In Numerical Methods For Students In All Engineering Disciplines. Difficult Concepts, Which Usually Pose Problems To Students Are Explained In Detail And Illustrated With Solved Examples. Enough Elementary Material That Could Be Covered In The First-Level Course Is Included, For Example, Methods For Solving Linear And Nonlinear Algebraic Equations, Interpolation, Differentiation, Integration, And Simple Techniques For Integrating Odes And Pdes (Ordinary And Partial Differential Equations). Advanced Techniques And Concepts That Could Form Part Of A Second-Level Course Include gears Method For Solving Ode-Ivps (Initial Value Problems), Stiffness Of Ode- Ivps, Multiplicity Of Solutions, Convergence Characteristics, The Orthogonal Collocation Method For Solving Ode-Bvps (Boundary Value Problems) And Finite Element Techniques. An Extensive Set Of Graded Problems, Often With Hints, Has Been Included. Some Involve Simple Applications Of The Concepts And Can Be Solved Using A Calculator, While Several Are From Real-Life Situations And Require Writing Computer Programs Or Use Of Library Subroutines. Practice On These Is Expected To Build Up The Reader'S Confidence In Developing Large Computer Codes.

A Textbook of Engineering Physics - M N Avadhanulu 1992

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Engineering Physics - K.V.S.Gnanaswara Rao 2008

Written according to syllabus of Viswesvaraya Technological University, Belgaum, Karnataka
Electrical Engineering Exam Prep - R. R. Gupta 2019-01-21

This book provides over 2,500 questions and answers for various types of electrical engineering exams or as a general review of key concepts. It covers all of the aspects of electrical engineering topics including electrical circuits,

electromagnetic theory, measurements, control systems, computers, electronics, material science, machines, power systems, blockchain, and more. FEATURES Uses multiple choice questions and their answers in a “self-study format” to review key concepts in electrical engineering and related topics Provides over 2500 questions for reviewing a variety of topics including circuits, measurement, information and blockchain technology, power systems, electronics, and more

Sales and Distribution Management - S.L. Gupta 2009

Most standard books on marketing area have been written by American authors. Though there are a number of books on Sales and Distribution Management by Indian authors as well, these

books do not present the Indian conditions in the right perspective. Indian students studying management require books which deal with the changing profile of Indian buyers and helps them understand their perceptions and motivations as also the factors that influence the decisions made by Indian consumers. The book offers a practical approach to Sales and Distribution Management and gives a comprehensive, easy-to-read and enjoyable treatment to the subject matter for students of Sales and Distribution Management. It includes more than 500 live examples and 30 Case Studies from Indian marketing environment and provides sufficient food for thought to students to develop themselves as Result oriented marketers of the future.