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Basic Electronics
Applied Physics for Engineers
Laser Systems and Applications
Parametric Modeling with Autodesk Inventor 2018
Electrical Instrumentation and Process Control (For UPTU, Lucknow)
Applications of Computational Science in Artificial Intelligence
Group Theory in Physics
Signals & Systems
Proceedings of Integrated Intelligence Enable Networks and Computing
The Principles of Integrated Technology in Avionics Systems
COMPUTATIONAL STRUCTURAL MECHANICS
Krishan's Engineering Physics Vol-2
Electromagnetic Field Theory
Electric Circuits and Signals
Introduction to Engineering Materials
Semiconductor Physics and Devices
Neural Networks & Fuzzy Logic
Renewable Energy Resources
Intelligent Communication, Control and Devices
A Textbook of Engineering Physics
Advanced Engineering Mathematics
Textbook of Organic Medicinal and Pharmaceutical Chemistry
Symmetry in Chemistry
Introduction to Engineering Physics For U.P.
Laser Systems and Applications
Digital Design
Search in Artificial Intelligence
Engineering Mathematics
Basic Engineering Physics (M.P.)
Elements of Mechanical Engineering
Intelligent Data Analysis for COVID-19 Pandemic
GATE Mechanical Engineering 2018
Microcontroller and Embedded System
An Introduction to Theory and Applications of Quantum Mechanics
Group Theory in Physics
GATE Mathematics
Elements of Mechanical Engineering(GTU)
A Textbook of Engineering Mathematics (For First Year ,Anna University)

CARLEE RILEY

Introduction to Engineering Mathematics Vol-1 (GBTU) Springer Nature

"This second edition maintains the book's basis on fundamentals, whilst including experience gained from the rapid growth of renewable energy technologies as secure national resources and for climate change mitigation, more extensively illustrated with case studies and worked problems. The presentation has been improved throughout, along with a new chapter on economics and institutional factors. Each chapter begins with fundamental theory from a scientific perspective, then considers applied engineering examples and developments, and includes a set of problems and solutions and a bibliography of printed and web-based material for further study. Common symbols and cross referencing apply throughout, essential data are tabulated in appendices. Sections on social and environmental aspects have been added to each technology chapter." -- back cover.

Basic Electronics Taylor & Francis
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.

Applied Physics for Engineers Pearson Education India

The book focuses on the integration of

intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It includes high-quality research papers from the 3rd international conference, ICICCD 2018, organized by the Department of Electronics, Instrumentation and Control Engineering at the University of Petroleum and Energy Studies, Dehradun on 21–22 December 2018. Covering a range of recent advances in intelligent communication, intelligent control and intelligent devices, the book presents original research and findings as well as researchers' and industrial practitioners' practical development experiences of.

Laser Systems and Applications S.
Chand Publishing

Solving circuit problems is less a matter of knowing what steps to follow than why those steps are necessary. And knowing the why stems from an in-depth understanding of the underlying concepts and theoretical basis of electric circuits. Setting the benchmark for a modern approach to this fundamental topic, Nassir Sabah's *Electric Circuits and Signals* supplies a comprehensive, intuitive, conceptual, and hands-on introduction with an emphasis on creative problem solving. A Professional Education Ideal for electrical engineering majors as a first step, this phenomenal textbook also builds a core knowledge in the basic theory, concepts, and techniques of circuit analysis, behavior, and operation for students following tracks in such areas as computer engineering, communications engineering, electronics, mechatronics, electric power, and control systems. The author uses hundreds of case studies, examples, exercises, and homework problems to build a strong understanding of how to apply theory to

problems in a variety of both familiar and unfamiliar contexts. Your students will be able to approach any problem with total confidence. Coverage ranges from the basics of dc and ac circuits to transients, energy storage elements, natural responses and convolution, two-port circuits, Laplace and Fourier transforms, signal processing, and operational amplifiers. Modern Tools for Tomorrow's Innovators Along with a conceptual approach to the material, this truly modern text uses PSpice simulations with schematic Capture® as well as MATLAB® commands to give students hands-on experience with the tools they will use after graduation. Classroom Extras When you adopt Electric Circuits and Signals, you will receive a complete solutions manual along with its companion CD-ROM supplying additional material. The CD contains a Word™ file for each chapter providing bulleted, condensed text and figures that can be used as class slides or lecture notes.

Parametric Modeling with Autodesk Inventor 2018 Upkar Prakashan

Based on a Cal Tech course, this is an outstanding introduction to formal quantum mechanics for advanced undergraduates in applied physics. The treatment's exploration of a wide range of topics culminates in two eminently practical subjects, the semiconductor transistor and the laser. Each chapter concludes with a set of problems. 1982 edition.

Electrical Instrumentation and Process Control (For UPTU, Lucknow) Krishna Prakashan Media

Search is an important component of problem solving in artificial intelligence (AI) and, more generally, in computer science, engineering and operations research. Combinatorial optimization,

decision analysis, game playing, learning, planning, pattern recognition, robotics and theorem proving are some of the areas in which search algorithms play a key role. Less than a decade ago the conventional wisdom in artificial intelligence was that the best search algorithms had already been invented and the likelihood of finding new results in this area was very small. Since then many new insights and results have been obtained. For example, new algorithms for state space, AND/OR graph, and game tree search were discovered. Articles on new theoretical developments and experimental results on backtracking, heuristic search and constraint propagation were published. The relationships among various search and combinatorial algorithms in AI, Operations Research, and other fields were clarified. This volume brings together some of this recent work in a manner designed to be accessible to students and professionals interested in these new insights and developments.

Applications of Computational Science in Artificial Intelligence

Seagull Books Pvt Ltd

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.

Group Theory in Physics S. Chand Publishing

The first edition of this highly successful

text aimed, 'to deal with the basic principles of materials science in a simply yet meaningful manner'. The second edition broadened the scope to incorporate the higher years of a degree course and included many more worked examples. This new third edition remains firmly targetted at the undergraduate market, and is comprised of five main sections: Materials Science, Engineering Materials, Forming Processes, Behaviour in Service and Property and Evaluation Tests, resulting in 32 chapters (as compared to 17 in the 2nd edition). The numbers of worked examples have been reduced, due to the publication of John's Work Out: Engineering Materials which is recommended to be used alongside the main text and is comprised mainly of worked examples and problems.

Signals & Systems CRC Press

Unit 1: Relativity And Interference
Theory Of Relativity Interference Unit 2:

Diffraction And

Polarization Diffraction Polarization Unit 3:

Fields And Electrostatics Scalar And

Vector Fields Electric Fields And Gauss'S

Law Maxwell'S Equations Unit 4: Magnetic

Properties Of Materials And X-

Rays Magnetic Properties Of Materials X-

Rays And Compton Effect Unit 5:

Quantum Theory And Lasers Matter

Waves And Uncertainty

Principle Quantum Theory Lasers Model

Test Papers

S. Chand Publishing

For B.E./B.Tech. / B.Arch. Students for

First Semester of all Engineering

Colleges of Maha Maya Technical

University, Noida and Gautam Buddha

Technical University, Lucknow

Proceedings of Integrated

Intelligence Enable Networks and

Computing Springer

Engineering Mathematics (Conventional and Objective Type) completely covers

the subject of Engineering Mathematics for engineering students (as per AICTE) as well as engineering entrance exams such as GATE, IES, IAS and Engineering Services Exams. Though a first edition, the book is enriched by 50 years of Academics and professional experience of the Author(s) and the experience of more than 85 published books.

The Principles of Integrated Technology in Avionics Systems Courier Corporation

Appropriate for one- or two-semester Advanced Engineering Mathematics

courses in departments of Mathematics and Engineering. This clear,

pedagogically rich book develops a

strong understanding of the

mathematical principles and practices

that today's engineers and scientists

need to know. Equally effective as either

a textbook or reference manual, it

approaches mathematical concepts from

a practical-use perspective making

physical applications more vivid and

substantial. Its comprehensive

instructional framework supports a

conversational, down-to-earth narrative

style offering easy accessibility and

frequent opportunities for application

and reinforcement.

COMPUTATIONAL STRUCTURAL

MECHANICS Springer Nature

For B.Sc I yr students as per the new

syllabus of UGC curriculum for all Indian

Universities. The present book has two

sections. Section I covers 1 which

includes chapters on Mechanics,

oscillations and Properties of Matter.

Section II covers course 2 which includes

chapters on Electricity, Magnetism and

Electromagnetic theory.

Krishan's Engineering Physics Vol-2 S.

Chand Publishing

This book presents intelligent data

analysis as a tool to fight against

COVID-19 pandemic. The intelligent data

analysis includes machine learning, natural language processing, and computer vision applications to teach computers to use big data-based models for pattern recognition, explanation, and prediction. These functions are discussed in detail in the book to recognize (diagnose), predict, and explain (treat) COVID-19 infections, and help manage socio-economic impacts. It also discusses primary warnings and alerts; tracking and prediction; data dashboards; diagnosis and prognosis; treatments and cures; and social control by the use of intelligent data analysis. It provides analysis reports, solutions using real-time data, and solution through web applications details.

Electromagnetic Field Theory PHI Learning Pvt. Ltd.

Basic Electronics, meant for the core science and technology courses in engineering colleges and universities, has been designed with the key objective of enhancing the students' knowledge in the field of electronics. Solid state electronics, a rapidly-evolving field of study, has been extensively researched for the latest updates, and the authors have supplemented the related chapters with customized pedagogical features. The required knowledge in mathematics has been developed throughout the book and no prior grasp of physical electronics has been assumed as an essential requirement for understanding the subject. Detailed mathematical derivations illustrated by solved examples enhance the understanding of the theoretical concepts. With its simple language and clear-cut style of presentation, this book presents an intelligent understanding of a complex subject like electronics.

Electric Circuits and Signals Pearson

Educación

This text aims to provide the fundamentals necessary to understand semiconductor device characteristics, operations and limitations. Quantum mechanics and quantum theory are explored, and this background helps give students a deeper understanding of the essentials of physics and semiconductors.

Introduction to Engineering Materials

Springer Science & Business Media

An introductory text book for graduates and advanced undergraduates on group representation theory. It emphasizes group theory's role as the mathematical framework for describing symmetry properties of classical and quantum mechanical systems. Familiarity with basic group concepts and techniques is invaluable in the education of a modern-day physicist. This book emphasizes general features and methods which demonstrate the power of the group-theoretical approach in exposing the systematics of physical systems with associated symmetry. Particular attention is given to pedagogy. In developing the theory, clarity in presenting the main ideas and consequences is given the same priority as comprehensiveness and strict rigor.

To preserve the integrity of the mathematics, enough technical information is included in the appendices to make the book almost self-contained.

A set of problems and solutions has been published in a separate booklet. Request Inspection Copy

Semiconductor Physics and Devices

Pearson Educación

This book has been prepared by a group of faculties who are highly experienced in training GATE candidates and are also subject matter experts. As a result this book would serve as a one-stop solution

for any GATE aspirant to crack the examination. The book is divided into three parts covering, (1) General Aptitude, (2) Engineering Mathematics and (3) Mechanical Engineering'.

Neural Networks & Fuzzy Logic

Firewall Media

|Quantum Physics|Charged - Particle Ballistics|Electron Optics|Lenses And Eye-Pieces|Interference|Diffraction And Polarization|Nuclear Physics|Digital Electronics|Dielectrics|Lasers|Fibre Optics

Renewable Energy Resources World Scientific Publishing Company

An introductory text book for graduates and advanced undergraduates on group representation theory. It emphasizes group theory's role as the mathematical framework for describing symmetry

properties of classical and quantum mechanical systems. Familiarity with basic group concepts and techniques is invaluable in the education of a modern-day physicist. This book emphasizes general features and methods which demonstrate the power of the group-theoretical approach in exposing the systematics of physical systems with associated symmetry. Particular attention is given to pedagogy. In developing the theory, clarity in presenting the main ideas and consequences is given the same priority as comprehensiveness and strict rigor. To preserve the integrity of the mathematics, enough technical information is included in the appendices to make the book almost self-contained. A set of problems and solutions has been published in a separate booklet.

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