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VEGA JIMMY

Engineering Physics: For PTU

Springer Nature

The solar Photovoltaic (PV) technology is gaining significant levels and is going to contribute a major share of total generated electricity in the coming years. PV technology is becoming a promising alternative source for fossil fuels. However, Power Quality (PQ) is the major concern that occurs between the grid and an end user. Any typical electrical distribution system exhibits a passive characteristic with respect to power flows when power flows from a substation to load. However, with inclusion of solar PV generators, this behaviour tends to be changed. The main characteristics related to PQ, such as voltage level, frequency, power factor and Total Harmonic Distortion (THD), may be affected. This book presents the analysis of PQ with the integration of grid-connected PV systems as distributed generation. The role of Maximum Power Point Tracking (MPPT) technique is investigated through implementing few basic MPPT techniques. Using the Matlab-simulation

platform, the analysis of PQ is demonstrated. This analysis is based on real measurements of THD, Voltage levels, Current levels, DC voltage levels, real power and reactive power flows. Basic Electrical And Electronics Engineering (PTU, Jalandhar) S. Chand Publishing

Engineering Physics: For PTU is designed to cater to the needs of the first-year undergraduate engineering students of PTU. Written in a lucid style, this book assimilates the best principles of conceptual pedagogy, dealing at length with various topics such as lasers, fibre optics, quantum theory and theory of relativity.

Encyclopedia of Applied Physics Wiley-VCH

The 23-volume Encyclopedia of Applied Physics - EAP - is a monumental first in scope, depth, and usability. It demonstrates the synergy between physics and technological applications. Information is presented according to the following subject areas: * General Aspects; Mathematical and Information Techniques * Measurement Sciences, General Devices and/or Methods * Nuclear and Elementary Particle Physics * Atomic and Molecular Physics * Electricity and Magnetism * Optics

(classical and quantum) * Acoustics * Thermodynamics and Properties of Gases * Fluids and Plasma Physics * Condensed Matter: Structure and Mechanical Properties; Thermal, Acoustic, and Quantum Properties ; Electronic Properties ; Magnetic Properties ; Dielectrical and Optical Properties; Surfaces and Interfaces * Materials Science * Physical Chemistry * Energy Research and Environmental Physics * Biophysics and Medical Physics * Geophysics, Meteorology, Space Physics and Aeronautics EAP consists of 23 hardcover volumes arranged alphabetically. A cumulative subject index is published after every three volumes, with a full index accompanying the complete work.

Engineering Physics Made Easy Pearson Education India

Basic Electrical and Electronics Engineering: For PTU is a student-friendly, practical and example-driven book that gives students a solid foundation in the basics of electrical and electronics engineering. The contents have been tailored to exactly correspond with the requirements of the core course, Basic Electrical and Electronics Engineering, offered to the students of Punjab Technical University in their first year. A rich collection of solved examples and chapters mapped to the university syllabus make this book indispensable for students.

Encyclopedia of Applied Physics: Order-disorder transitions to physics and engineering organizations IGI Global "Physics, Seventh Edition" is designed for the non-calculus physics course taken by students who are pursuing careers in science or engineering technology. Content is built through extensive use of examples with detailed solutions designed to develop

students' problem-solving skills.

Basic Electrical and Electronics Engineering: For PTU S. Chand Publishing

For close to 30 years, [A Textbook of Applied Electronics] has been a comprehensive text for undergraduate students of Electronics and Communications Engineering. The book comprises of 35 chapters, all delving on important concepts such as structure of solids, DC resistive circuits, PN junction, PN junction diode, rectifiers and filters, hybrid parameters, power amplifiers, sinusoidal oscillators, and time base circuits. In addition, the book consists of several chapter-wise questions and detailed diagrams to understand the complex concepts of applied electronics better. This book is also becomes an essential-read for aspirants preparing for competitive examinations like GATE and NET.

Solar Photovoltaics Engineering. A Power Quality Analysis Using Matlab Simulation Case Studies Wiley

Although Concepts of Modern Physics was the first book covering the syllabi of Punjab Technical University, Jalandhar and it was accepted whole-heartedly by students and teachers alike. However, due to the repeated changes of syllabi of P.T.U. as it being a new university, the book had to be revised and some of the chapters become redundant as these were replaced by new topics. Though the book was revised with the additional chapters, the discarded chapters also formed the part of the book.

Proceedings of Trends in Electronics and Health Informatics Anchor Academic Publishing

Metamaterials and metasurfaces are enabling modern 5G/6G wireless systems to achieve high performance while maintaining efficient costs and

sizes. In the wireless industry, transmission lines play a fundamental role in the development of guided wave elements, antennas, radio frequency identification (RFID) tags, and sensors whose efficiency may be enhanced using metamaterials. Additionally, a metamaterial absorber can solve the bandwidth issue of the internet of things (IoT) backhaul network. Metasurfaces are also potential candidates for implementing reconfigurable intelligent surfaces (RIS) due to their special wireless communication capabilities. *Metamaterial Technology and Intelligent Metasurfaces for Wireless Communication Systems* compiles and promotes metamaterials research and sheds light on how metamaterials and metasurfaces will be used in the 5G era and beyond. Covering topics such as active and passive metamaterials, metasurfaces-inspired antennas, and metamaterials for RFID and sensors, this book is ideal for researchers, students, academicians, and professionals. *Applied Physics* S. Chand Publishing

The present book on *Elements of Mechanical Engineering* is meant for the engineering students of all branches at their first year level. It covers the new syllabus of panjab Technical University, Jalandhar. However, it shall be useful to students of other Universities also. The book covers the basic principles of Thermodynamics, zeroth law of Thermodynamics and the concept of temperature in the first chapter. *Physics* McGraw-Hill/Glencoe

Basic Electrical and Electronics Engineering provides an overview of the basics of electrical and electronic engineering that are required at the undergraduate level. The book allows students outside electrical and electronics engineering to easily

Physics, Chapters 1-17 Pearson Education India

Counter This cumulative index is essential for all those who need to consult the *Encyclopedia of Applied Physics* for specific information which is not treated in a separate entry. It provides full access to this indispensable reference work.

Basic Electrical and Electronics Engineering: Firewall Media

This book gives a contemporary and comprehensive overview of the physics of lightning and protection systems, based on nearly 40 years of research, teaching, and consultancy work in this area. The book begins with an overview of the climatology of lightning and electric storms, as well as giving insight into lightning discharge from the preliminary discharges or processes such as corona, stepped leader, and subsequent return strokes, including the important submicrosecond threats and continuous current. The subsequent chapters present measures of lightning threat analysis to aircraft and electric power systems, protection measures to be used in high-voltage to low-voltage computer and communication systems, as well as to commercial and domestic buildings. The book discusses challenges posed by the submicrosecond lightning current changes and climate change to present and future high-voltage apparatus and structures (including carbon composite aircraft and new buildings) exposed to lightning strikes. Including worked examples, illustrations, and detailed analysis, *Lightening Engineering* will be of interest to electrical engineers, as well as researchers and graduate students. *Encyclopedia of Applied Physics. - 14: Physics and Technology of Ion and Electron Sources to Positron-annihilation*

Spectroscopy Prentice Hall

EAP's Seal of Approval EAP is sponsored by the * American Institute of Physics * German Physical Society * Japan Society of Applied Physics * Physical Society of Japan First work of its kind to approach physics from the standpoint of technical and industrial applications -

Comprehensive and detailed coverage of the entire field of applied physics in an easily accessible form - Unique and highly useful classification system -

Supplements guarantee that all articles remain up-to-date. Each article contains:
- a detailed table of contents - a glossary of unfamiliar terms - a detailed reference list - a guide to further reading -

Numerous cross-references - Uniform terms, abbreviations, symbols, and units
Physics for Scientists and Engineers

McGraw-Hill Higher Education

Although Concepts of Modern Physics was the first book covering the syllabi of Punjab Technical University, Jalandhar and it was accepted whole-heartedly by students and teachers

alike. However, due to the repeated changes of syllabi of P.T.U. as it being a new university, the book had to be revised and some of the chapters become redundant as these were replaced by new topics. Though the book was revised with the additional chapters, the discarded chapters also formed the part of the book.

Applied Physics - I Firewall Media

For Calculus-based Physics courses. This text is designed for a calculus-based physics course at the beginning university and college level. It is written with the expectation that students have either taken or are currently taking a beginning course in calculus. Students taking a physics course based on this book should leave with a solid conceptual understanding of the

fundamental physical laws and how these laws can be applied to solve many problems. The key word for this edition is "understanding." The third edition of this text remains rigorous while including a number of new pedagogical elements which emphasize conceptual understanding.

Elements Of Mechanical Engineering (Ptu) Wiley-VCH

Made Easy Series is developed with an objective of meeting the requirement of books that cover syllabi of important core engineering subjects focussing completely on the manner in which concepts will be tested in examinations. Books in this series are designed in a question-and-answer format to cater to undergraduate students of all major technological universities and to equip them with the desired knowledge in a simple yet comprehensive manner. They explore all the important concepts of the syllabi with the help of solved questions and numerical problems of previous years' question papers of these universities. Apart from being extremely student-friendly and lucid, the books in this series are rich in pedagogical features such as brief point-wise discussion of fundamental concepts, theoretical questions with answers, solved numerical problems, and objective questions and exercises for further practice (all taken from previous years' question papers) that aid students in preparing well for university examinations. Because of the fiercely competitive nature of the current academic scenario and the large number of books available for each topic, it is extremely difficult for students to spend too much time in an in-depth study of each book, especially during examinations when they are hard-pressed for time. Made Easy Series will

empower students to prepare for university examinations in a systematic and thorough manner in a limited amount of time. The syllabi of the following universities have been covered in the book: UPTU, Anna Univ., JNTU, VTU, RTU, RGTU, WBUT, BPUT, PTU, Pune Univ., Mumbai Univ.

Engineering Physics II 2240 Springer Nature

This book includes selected peer-reviewed papers presented at the International Conference on Trends in Electronics and Health Informatics (TEHI 2021), organized by Department of Electronics and Communication

Engineering and Department of Computer Science and Engineering, Pranveer Singh Institute of Technology Kanpur, India, during 16–17 December 2021. The book is broadly divided into five sections—artificial intelligence and soft computing, healthcare informatics, Internet of things and data analytics, electronics, and communications.

Concepts of Modern Engineering

Physics Pearson Education India

Applied Physics Pearson Education India

Metamaterial Technology and

Intelligent Metasurfaces for

Wireless Communication Systems S.

Chand Publishing