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Gets you quickly up to speed with the theoretical and practical aspects of free space optical systems engineering design and analysis. One of today's fastest growing system design and analysis disciplines is free space optical systems engineering for communications and remote sensing applications. It is concerned with creating a light signal with certain characteristics, how this signal is affected and changed by the medium it traverses, how these effects can be mitigated both pre- and post-detection, and if after detection, it can be differentiated from noise under a certain standard, e.g., receiver operating characteristic. Free space optical systems engineering is a complex process to design against and analyze. While there are several good introductory texts devoted to key aspects of optics—such as lens design, lasers, detectors, fiber and free space, optical communications, and remote sensing—until now, there were none offering comprehensive coverage of the basics needed for optical systems engineering. If you're an upper-division undergraduate, or first-year graduate student, looking to acquire a practical understanding of electro-optical engineering basics, this book is intended for you. Topics and tools are covered that will prepare you for graduate research and engineering in either an academic or commercial environment. If you are an engineer or scientist considering making the move into the opportunity rich field of optics, this all-in-one guide brings you up to speed with everything you need to know to hit the ground running, leveraging your experience and expertise acquired previously in alternate fields. Following an overview of the mathematical fundamentals, this book provides a concise, yet thorough coverage of, among other crucial topics: Maxwell Equations, Geometrical Optics, Fourier Optics, Partial Coherence theory, Linear algebra, Basic probability theory, Statistics, Detection and Estimation theory, Replacement Model detection theory, LADAR/LIDAR detection theory, optical communications theory, Critical aspects of atmospheric propagation in real environments, including commonly used models for characterizing beam, and spherical and plane wave propagation through free space, turbulent and particulate channels, Lasers, blackbodies/graybodies sources and photodetectors (e.g., PIN, ADP, PMT) and their inherent internal noise sources. The book provides clear, detailed discussions of the basics for free space optical systems design and analysis, along with a wealth of worked examples and practice problems—found throughout the book and on a companion website. Their intent is to help you test and hone your skill set and assess your comprehension of this important area. Free Space Optical Systems Engineering is an indispensable

introduction for students and professionals alike.

Staff Directory - Cornell University S. Chand Publishing
 For Mechanical Engineering Students of Indian Universities. It is also available in 4 Individual Parts

Principle of Electrical Engineering and Electronics S. Chand Publishing

Unique within the field for being written in a tutorial style, this textbook adopts a step-by-step approach to the background needed for understanding a wide range of full-field optical measurement techniques in solid mechanics. This method familiarizes readers with the essentials of imaging and full-field optical measurement techniques, helping them to identify the appropriate techniques and in assessing measurement systems. In addition, readers learn the appropriate rules of thumb as a guide to better experimental performance from the applied techniques. Rather than presenting an exhaustive overview on the subject, each chapter provides a concise introduction to the concepts and principles, integrates solved problems within the text, summarizes the essence at the end, and includes unsolved problems. With its coverage of topics also relevant for industry, this text is aimed at graduate students, researchers, and engineers involved in non-destructive testing for acoustics, mechanics, medicine, diagnosis on artwork and construction, and civil engineering.

Directory of Published Proceedings Elsevier

A textbook of Electrical Technology. In this edition, two new chapters have been added namely Rating & Service Capacity and distribution Automation. The First chapter will be useful to degree/diploma students undergoing their first course in Electrical Drives. It also contains many solved problems for the benefit of students. Another new chapter 'distribution Automation' is a latest development in the field of Electrical Power System Engineering. Till recent years, stress was given on Generation and Transmission.

The Manchester Municipal School of Technology S. Chand Publishing

The Electrical Engineer's Handbook is an invaluable reference source for all practicing electrical engineers and students. Encompassing 79 chapters, this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students. This text will most likely be the engineer's first choice in looking for a solution; extensive, complete references to other sources are provided throughout. No other book has the breadth and depth of coverage available here. This is a must-have for all practitioners and students! The Electrical Engineer's Handbook provides the most up-to-date information in: Circuits and Networks, Electric Power Systems, Electronics, Computer-Aided Design and Optimization, VLSI Systems, Signal

Processing, Digital Systems and Computer Engineering, Digital Communication and Communication Networks, Electromagnetics and Control and Systems. About the Editor-in-Chief... Wai-Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago. He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems. He was Editor-in-Chief of the IEEE Transactions on Circuits and Systems, Series I and II, President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor-in-Chief of the Journal of Circuits, Systems and Computers. He is the recipient of the Golden Jubilee Medal, the Education Award, and the Meritorious Service Award from the IEEE Circuits and Systems Society, and the Third Millennium Medal from the IEEE. Professor Chen is a fellow of the IEEE and the American Association for the Advancement of Science. * 77 chapters encompass the entire field of electrical engineering. * THOUSANDS of valuable figures, tables, formulas, and definitions. * Extensive bibliographic references.

Digital Control Systems Sanbun Publishers

The General Response to the first edition of the book was very encouraging. The authors feel that their work has been amply rewarded and wish to express their deep sense of gratitude, in common to the large number of readers who have used it, and in particular to those who have sent helpful suggestions from time to time for the improvement of the book. To enhance the utility of the book, it has been decided to bring out the multicolor edition of the book. There are three salient features of the multicolor edition.

The Electrician John Wiley & Sons

This monograph deals with theoretical and practical aspects of creating course timetables at academic institutions. The task is typically to create a timetable that suits the requirements of the stakeholders - students, lecturers, and the administration - as well as possible. The book presents an exposition of the basic combinatorial problems and solution methods for course timetabling and related tasks. It provides a rigorous treatment of fairness issues that arise in the course timetabling context and shows how to deal with the potentially conflicting interests of the stakeholders. The proposed methods are also readily applicable to other classes of scheduling problems such as staff rostering. Finally, it presents a comprehensive case study on the implementation of an automated course timetabling system at the school of engineering of the University of Erlangen-Nuremberg. The case study includes a detailed description of the problem model as well as an evaluation of stakeholder satisfaction.

Planning Standards for Higher-education Facilities Springer
 Artificial intelligence is increasingly finding its way into industrial

and manufacturing contexts. The prevalence of AI in industry from stock market trading to manufacturing makes it easy to forget how complex artificial intelligence has become.

Engineering provides various current and prospective applications of these new and complex artificial intelligence technologies. Applications of Artificial Intelligence in Electrical Engineering is a critical research book that examines the advancing developments in artificial intelligence with a focus on theory and research and their implications. Highlighting a wide range of topics such as evolutionary computing, image processing, and swarm intelligence, this book is essential for engineers, manufacturers, technology developers, IT specialists, managers, academicians, researchers, computer scientists, and students.

The Bookseller IGI Global

Neufert's Architects' Data is an essential reference for the initial design and planning of a building project. It provides, in one concise volume, the core information needed to form the framework for the more detailed design and planning of any building project. Organised largely by building type, it covers the full range of preliminary considerations, and with over 6200 diagrams it provides a mass of data on spatial requirements. Most illustrations are dimensioned and each building type includes plans, sections, site layouts and design details. An extensive bibliography and a detailed set of metric/ imperial conversion tables are included. Since it was first published in Germany in 1936, Ernst Neufert's handbook has been progressively revised and updated through 39 editions and many translations. This fourth English language edition is translated from the 39th German edition, and represents a major new edition for an international, English speaking readership. Reviews of the Previous Edition: "Neufert's Architects' Data was the first book I bought when I started my studies in architecture. It was invaluable for me then and it is still a useful aid in my designs." —Cesar Pelli "With this thorough rewrite Neufert has produced yet again an invaluable reference book." —The Architects' Journal

Electrical Engineering Elsevier

Bulletin of Electrical Engineering and Informatics (Buletin Teknik Elektro dan Informatika) ISSN: 2089-3191, e-ISSN: 2302-9285 is open to submission from scholars and experts in the wide areas of electrical, electronics, instrumentation, control, telecommunication and computer engineering from the global world. The journal publishes original papers in the field of electrical, electronics, instrumentation & control, telecommunication, computer and informatics engineering. Vol 3, No 2 June 2014 Table of Contents Predictions on the Development Dimensions of Provincial Tourism Discipline Based on the Artificial Neural Network BP Model PDF Yang Yang, Jun Hu, Mu Zhang 69-76 Study on the Rough-set-based Clustering Algorithm for Sensor Networks PDF Fengmei Liang, Liyuan Zhang, Peng Sun 77-90 Varying Vector Pulse Width Modulation for Three Phase Inverter PDF Raju J, Kowsalya M 91-100 Optimal Determination of Size and Site of DGs in Mesh System Using PSO PDF Mohammad Salehi Male, Adel Akbari Majid, Ramtin Rasouli Nezhad 101-108 Voltage

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Bookseller John Wiley & Sons

The objective of this book is to provide a collection of solved problems on control systems, with an emphasis on practical problems. System functionality is described, the modeling process is explained, the problem solution is introduced, and the derived results are discussed. Each chapter ends with a discussion on applying MATLAB®, LabVIEW, and/or Comprehensive Control to the previously introduced concepts. The aim of the book is to help an average reader understand the concepts of control systems through problems and applications. The solutions are based directly on math formulas given in extensive tables throughout the text.

A Textbook of Electrical Technology - Volume I (Basic Electrical Engineering) CRC Press

A long established reference book: radical revision for the fifteenth edition includes complete rearrangement to take in chapters on new topics and regroup the subjects covered for easy access to information. The Electrical Engineer's Reference Book, first published in 1945, maintains its original aims: to reflect the state of the art in electrical science and technology and cater for the needs of practising engineers. Most chapters have been revised and many augmented so as to deal properly with both fundamental developments and new technology and applications that have come to the fore since the fourteenth edition was published (1985). Topics covered by new chapters or radically updated sections include: * digital and programmable electronic systems * reliability analysis * EMC * power electronics * fundamental properties of materials * optical fibres * maintenance in power systems * electroheat and welding * agriculture and horticulture * aeronautic transportation * health and safety * procurement and purchasing * engineering economics

The Proceedings of the 9th Frontier Academic Forum of Electrical Engineering S. Chand Publishing

The primary objective of vol. I of A Text Book of Electrical Technology is to provide a comprehensive treatment of topics in Basic Electrical Engineering both for electrical as well as nonelectrical students pursuing their studies in civil, mechanical, mining, textile, chemical, industrial, environmental, aerospace, electronic and computer engineering both at the Degree and diploma level. Based on the suggestions received from our esteemed readers, both from India and abroad, the scope of the

book has been enlarged according to their requirements. Almost half the solved examples have been deleted and replaced by latest examination papers set up to 1994 in different engineering colleges and technical institutions in India and abroad.

Fundamentals of Electrical Engineering Springer Nature

This book includes the original, peer-reviewed research papers from the 9th Frontier Academic Forum of Electrical Engineering (FAFEE 2020), held in Xi'an, China, in August 2020. It gathers the latest research, innovations, and applications in the fields of Electrical Engineering. The topics it covers including electrical materials and equipment, electrical energy storage and device, power electronics and drives, new energy electric power system equipment, IntelliSense and intelligent equipment, biological electromagnetism and its applications, and insulation and discharge computation for power equipment. Given its scope, the book benefits all researchers, engineers, and graduate students who want to learn about cutting-edge advances in Electrical Engineering.

The Electrical Engineer National Library Australia

This book has been revised thoroughly. A large number of practical problems have been added to make the book more useful to the students. Also included, multiple-choice questions at the end of each chapter.

Prospectus of Advanced Studies ... John Wiley & Sons

Electrical Engineer's Reference Book, Fourteenth Edition focuses on electrical engineering. The book first discusses units, mathematics, and physical quantities, including the international unit system, physical properties, and electricity. The text also looks at network and control systems analysis. The book examines materials used in electrical engineering. Topics include conducting materials, superconductors, silicon, insulating materials, electrical steels, and soft irons and relay steels. The text underscores electrical metrology and instrumentation, steam-generating plants, turbines and diesel plants, and nuclear reactor plants. The book also discusses alternative energy sources. Concerns include wind, geothermal, wave, ocean thermal, solar, and tidal energy. The text then looks at alternating-current generators. Stator windings, insulation, output equation, armature reaction, and reactants and time-constraints are described. The book also examines overhead lines, cables, power transformers, switchgears and protection, supply and control of reactive power, and power systems operation and control. The text is a vital source of reference for readers interested in electrical engineering.

The Electrical Engineering Handbook Elsevier

Vols. for 1871-76, 1913-14 include an extra number, The Christmas bookseller, separately paged and not included in the consecutive numbering of the regular series.

Principles of Electrical Engineering and Electronics S.

Chand Publishing

A Textbook of Electrical Technology - Volume III Institute of Advanced Engineering and Science
Electrical Engineering