

Premkumar Basic Electric Engineering

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Nanoelectronics, Circuits and Communication Systems Vijay Nath 2018-08-01 This book features selected papers presented at Third International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2017). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it is a valuable resource for young scholars, researchers, and academics.

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) S.S. Bhavikatti 2009 So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook.A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

Biology for NEET Volume-2 (Objective Series) S. Chand Experts Biology for NEET comprises a comprehensive set of question and answers based on current trends in the NEET. Strictly following the NCERT course/chapter structure, the book aims at preparing the students for competing in the medical entrance examinations in a better way. For convenience and to plan for the examinations effectively, questions have been arranged both chapter-wise and topic-wise, and explanation have been provided for answers. Further, to assess the students' level of preparation, Advanced Level Questions (ALQs) and Assertion-Reason Questions have been provided in each chapter. Also, the book has numerous previous years' questions to brush-up their knowledge.

A Textbook of Applied Electronics RS Sedha 2008-02 The present book has been thoroughly revised and lot of useful material has been added .several photographs of electronic devices and their specifications sheets have been included.This will help the students to have a better understanding of the electric devices and circuits from application point of view.the mistake and misprints,which has crept in,have been eliminated in this edition.

Sensor Systems Clarence W. de Silva 2016-12-19 This book covers sensors and multiple sensor systems, including sensor networks and multi-sensor data fusion. It presents the physics and principles of operation and discusses sensor selection, ratings and performance specifications, necessary hardware and software for integration into an engineering system and signal processing and data analysis. Additionally, it discusses parameter estimation, decision making and practical applications. Even though the book has all the features of a course textbook, it also contains a wealth of practical information on the subject.

Materials Science of DNA Jung-II Jin 2016-04-19 The field of materials science and technology has undergone revolutionary advances due to the development of novel analytical tools, functional materials, and multidisciplinary approaches to engineering. Additionally, theoretical predictions combined with increasingly improved models and computational capabilities are making impressive contribution

Electric Circuit Theory R. Yorke 2013-10-22 Electric Circuit Theory provides a concise coverage of the framework of electrical engineering. Comprised of six chapters, this book emphasizes the physical process of electrical engineering rather than abstract mathematics. Chapter 1 deals with files, circuits, and parameters, while Chapter 2 covers the natural and forced response of simple circuit. Chapter 3 talks about the sinusoidal steady state, and Chapter 4 discusses the circuit analysis. The fifth chapter tackles frequency response of networks, and the last chapter covers polyphase systems. This book will be of great help to electrical, electronics, and control engineering students or any other individuals who require a substantial understanding of the physical aspects of electrical engineering.

Embedded Systems and Robotics with Open Source Tools Nilanjan Dey 2018-09-03 Embedded Systems and Robotics with Open-Source Tools provides easy-to-understand and easy-to-implement guidance for rapid prototype development. Designed for readers unfamiliar with advanced computing technologies, this highly accessible book: Describes several cutting-edge open-source software and hardware technologies Examines a number of embedded computer systems and their practical applications Includes detailed projects for applying rapid prototype development skills in real time Embedded Systems and Robotics with Open-Source Tools effectively demonstrates that, with the help of high-performance microprocessors, microcontrollers, and highly optimized algorithms, one can develop smarter embedded devices.

Nanoelectronics, Circuits and Communication Systems Vijay Nath 2021-12-02 This book features selected papers presented at the Fifth International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2019). It covers a range of topics, including nanoelectronic devices, microelectronics devices, material science, machine learning, Internet of things, cloud computing, computing systems, wireless communication systems, advances in communication 5G and beyond. Further, it discusses VLSI circuits and systems, MEMS, IC design and testing, electronic system design and manufacturing, speech signal processing, digital signal processing, FPGA-based wireless communication systems and FPGA-based system design, Industry 4.0, e-farming, semiconductor memories, and IC fault detection and correction.

Smart Grids and Green Energy Systems A. Chitra 2022-11-08 SMART GRIDS AND GREN ENERGY SYSTEMS Green energy and smart grids are two of the most important topics in the constantly emerging and changing energy and power industry. Books like this one keep the veteran engineer and student, alike, up to date on current trends in the technology and offer a reference for the industry for its practical applications. Smart grids and green energy systems are promising research fields which need to be commercialized for many reasons, including more efficient energy systems and environmental concerns. Performance and cost are tradeoffs which need to be researched to arrive at optimal solutions. This book focuses on the convergence of various technologies involved in smart grids and green energy systems. Areas of expertise, such as computer science, electronics, electrical engineering, and mechanical engineering are all covered. In the future, there is no doubt that all countries will gradually shift from conventional energy sources to green energy systems.

Thus, it is extremely important for any engineer, scientist, or other professional in this area to keep up with evolving technologies, techniques, and processes covered in this important new volume. This book brings together the research that has been carrying out in the field of smart grids and green energy systems, across a variety of industries and scientific subject-areas. Written and edited by a team of experts, this groundbreaking collection of papers serves as a point of convergence wherein all these domains need to be addressed. The various chapters are configured in order to address the challenges faced in smart grid and green energy systems from various fields and possible solutions. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas, this is a must-have for any library.

Roots and Wings Shantha Mohan 2018-08-31 Are you wondering if engineering, science, or business will work as a career choice for a young woman? Do you question if a woman can pursue a successful career in these fields while enjoying a satisfying family life and still find a way to make meaningful social contributions? Then this book, which chronicles the lives and careers of women who managed to do just that, is the one for you. These 29 women all graduated from the oldest engineering college in India sometime between 1943 and 1971. This was a difficult time for these pioneering women to pursue their chosen path, yet they all went on to make their mark in their unique ways in various fields of work in India as well as the USA. Overcoming several obstacles to their careers, they managed to find a good balance between family and work. A few were, and are, also great community leaders. Their lives are models of courage, initiative, perseverance, innovation, entrepreneurship, resilience and flexibility. Enjoy the stories of these courageous women and be inspired.

Futuristic Sustainable Energy & Technology Rajesh Singh 2022-05-01 Futuristic Sustainable Energy and Technology provides a structured overview of the concept of Futuristic Sustainable Energy and Technology. It also explores the promotion of the sustainable development of renewable energy from the perspectives of technology, modelling, application, sustainability and policy. This book is dedicated to the advancement of energy efficiency to mitigate consumption, ensure and replenish, expand and reuse elective energy supplies, and to replicate the damage caused by previous energy initiatives. This book has offered a large stage of experimentation for practitioners, experts, researchers and teachers to incorporate and analyze their latest developments, as well as the trends and difficulties encountered and the ongoing evolution of the stage in these areas.

Practical Troubleshooting of Electrical Equipment and Control Circuits Mark Brown 2004-10-21 There is a large gap between what you learn in college and the practical knowhow demanded in the working environment, running and maintaining electrical equipment and control circuits. Practical Troubleshooting of Electrical Equipment and Control Circuits focuses on the hands-on knowledge and rules-of-thumb that will help engineers and employers by increasing knowledge and skills, leading to improved equipment productivity and reduced maintenance costs. Practical Troubleshooting of Electrical Equipment and Control Circuits will help engineers and technicians to identify, prevent and fix common electrical equipment and control circuits. The emphasis is on practical issues that go beyond typical electrical principles, providing a tool-kit of skills in solving electrical problems, ranging from control circuits to motors and variable speed drives. The examples in the book are designed to be applicable to any facility. Discover the practical knowhow and rules-of-thumb they don't teach you in the classroom Diagnose electrical problems 'right first time' Reduce downtime

Electric Circuit Theory, 1/e N. Premakumaran 1982

Multilevel Converters: Control Techniques for Renewable Energy Resources Sudhakar Babu Thanikanti 2022-01-13

Circuit Analysis I Steven T. Karris 2003 This introduction to the basic principles of electrical engineering teaches the fundamentals of electrical circuit analysis and introduces MATLAB - software used to write efficient, compact programs to solve mechanical engineering problems of varying complexity.

Information Security and Optimization Rohit Tanwar 2020-11-18 Information Security and Optimization maintains a practical perspective while offering theoretical explanations. The book explores concepts that are essential for academics as well as organizations. It discusses aspects of techniques and tools—definitions, usage, and analysis—that are invaluable for scholars ranging from those just beginning in the field to established experts. What are the policy standards? What are vulnerabilities and how can one patch them? How can data be transmitted securely? How can data in the cloud or cryptocurrency in the blockchain be secured? How can algorithms be optimized? These are some of the possible queries that are answered here effectively using examples from real life and case studies. Features: A wide range of case studies and examples derived from real-life scenarios that map theoretical explanations with real incidents. Descriptions of security tools related to digital forensics with their unique features, and the working steps for acquiring hands-on experience. Novel contributions in designing organization security policies and lightweight cryptography. Presentation of real-world use of blockchain technology and biometrics in cryptocurrency and personalized authentication systems. Discussion and analysis of security in the cloud that is important because of extensive use of cloud services to meet organizational and research demands such as data storage and computing requirements. Information Security and Optimization is equally helpful for undergraduate and postgraduate students as well as for researchers working in the domain. It can be recommended as a reference or textbook for courses related to cybersecurity.

Intelligent Control of Robotic Systems Laxmidhar Behera 2020-04-07 This book illustrates basic principles, along with the development of the advanced algorithms, to realize smart robotic systems. It speaks to strategies by which a robot (manipulators, mobile robot, quadrotor) can learn its own kinematics and dynamics from data. In this context, two major issues have been dealt with; namely, stability of the systems and experimental validations. Learning algorithms and techniques as covered in this book easily extend to other robotic systems as well. The book contains MATLAB- based examples and c-codes under robot operating systems (ROS) for experimental validation so that readers can replicate these algorithms in robotics platforms.

Basic Electrical and Electronics Engineering B. R. Patil 2012

Advances in Electrical and Computer Technologies Thangaprakash Sengodan 2022-07-27 This book comprises select proceedings of the International Conference on Advances in Electrical and Computer Technologies 2021 (ICAECT 2021). The papers presented in this book are peer-reviewed and cover the latest research in electrical, electronics, communication, and computer engineering. Topics covered include smart grids, soft computing techniques in power systems, smart energy management systems, power electronics, feedback control systems, biomedical engineering, geographic information systems, grid computing, data mining, image and signal processing, video processing, computer vision, pattern recognition, cloud computing, pervasive computing, intelligent systems, artificial intelligence, neural network and fuzzy logic, broadband communication, mobile and optical communication, network security, VLSI, embedded systems, optical networks, and wireless communication. The book is useful for students and researchers working in the different overlapping areas of electrical, electronics, and communication engineering.

The Palgrave Handbook of Managing Continuous Business Transformation Horst Ellermann 2016-12-27 This handbook provides a comprehensive and unparalleled reference point for studying continuous business transformation. Asserting that change will be the new normal and highlighting the fact that business transformation can never be complete, this important resource is a tool for coping with ongoing change in order to become and stay resilient, the predominant concern of executives across industries. Containing case study material to illustrate issues and solutions, The Palgrave Handbook of Managing Continuous Business Transformation takes an interdisciplinary approach weaving together strategic concepts with real-life experiences, connecting human resource issues with shifts in information technology and linking customers with the businesses from which they buy. Structured into four parts; transformational shifts, achieving customer centricity, dealing with new technology and leading the change, this handbook is crucial reading for academics, scholars and practitioners of business transformation.

Intelligent Autonomous Systems Dilip Kumar Pratihar 2010-02-24 This research book contains a sample of most recent research in the area of intelligent autonomous systems. The contributions include: General aspects of intelligent autonomous systems Design of intelligent autonomous robots Biped robots Robot for stair-case navigation Ensemble learning for multi-source information fusion Intelligent autonomous systems in psychiatry Condition monitoring of internal combustion engine Security management of an enterprise network High dimensional neural nets and applications This book is directed to engineers, scientists, professor and the undergraduate/postgraduate students who wish to explore this field further.

ZnO Nanocrystals and Allied Materials M S Ramachandra Rao 2013-09-12 ZnO has been the central theme of research in the past decade due to its various applications in band gap engineering, and textile and biomedical industries. In nanostructured form, it offers ample opportunities to realize tunable optical and optoelectronic properties and it was also termed as a potential material to realize room temperature ferromagnetism. This book presents 17 high-quality contributory chapters on ZnO related systems written by experts in this field. These chapters will help researchers to understand and explore the varied physical properties to envisage device applications of ZnO in thin film, heterostructure and nanostructure forms.

Technology Innovation in Mechanical Engineering Prem Kumar Chaurasiya 2022-04-29 This book comprises select papers presented at the conference on Technology Innovation in Mechanical Engineering (TIME-2021). The book discusses the latest innovation and advanced research in the diverse field of Mechanical Engineering such as materials, manufacturing processes, evaluation of materials properties for the application in automotive, aerospace, marine,

locomotive and energy sectors. The topics covered include advanced metal forming, Energy Efficient systems, Material Characterization, Advanced metal forming, bending, welding & casting techniques, Composite and Polymer Manufacturing, Intermetallics, Future generation materials, Laser Based Manufacturing, High-Energy Beam Processing, Nano materials, Smart Material, Super Alloys, Powder Metallurgy and Ceramic Forming, Aerodynamics, Biological Heat & Mass Transfer, Combustion & Propulsion, Cryogenics, Fire Dynamics, Refrigeration & Air Conditioning, Sensors and Transducers, Turbulent Flows, Reactive Flows, Numerical Heat Transfer, Phase Change Materials, Micro- and Nano-scale Transport, Multi-phase Flows, Nuclear & Space Applications, Flexible Manufacturing Technology & System, Non-Traditional Machining processes, Structural Strength and Robustness, Vibration, Noise Analysis and Control, Tribology. In addition, it discusses industrial applications and cover theoretical and analytical methods, numerical simulations and experimental techniques in the area of Mechanical Engineering. The book will be helpful for academics, including graduate students and researchers, as well as professionals interested in interdisciplinary topics in the areas of materials, manufacturing, and energy sectors.

Advances in Smart Grid Technology Pierluigi Siano 2020-09-22 This book comprises the select proceedings of the International Conference on Power Engineering Computing and Control (PECCON) 2019. This volume focuses on the different renewable energy sources which are integrated in a smart grid and their operation both in the grid connected mode and islanded mode. The contents highlight the role of power converters in the smart grid environment, battery management, electric vehicular technology and electric charging station as a load for the power network. This book can be useful for beginners, researchers as well as professionals interested in the area of smart grid technology.

Natural Language Processing with AWS AI Services Mona M 2021-11-26 Work through interesting real-life business use cases to uncover valuable insightsRun Python code to use Amazon Textract and Amazon Comprehend to accelerate business outcomesUnderstand how you can integrate human-in-the-loop for custom NLP use cases with Amazon A2IBook Description Natural language processing (NLP) uses machine learning to extract information from unstructured data. This book will help you to move quickly from business questions to high-performance models in production. To start with, you'll understand the importance of NLP in today's business applications and learn the features of Amazon Comprehend and Amazon Textract to build NLP models using Python and Jupyter Notebooks. The book then shows you how to integrate AI in applications for accelerating business outcomes with just a few lines of code. Throughout the book, you'll cover use cases such as smart text search, setting up compliance and controls when processing confidential documents, real-time text analytics, and much more to understand various NLP scenarios. You'll deploy and monitor scalable NLP models in production for real-time and batch requirements. As you advance, you'll explore strategies for including humans in the loop for different purposes in a document processing workflow. Moreover, you'll learn best practices for auto-scaling your NLP inference for enterprise traffic. Whether you're new to ML or an experienced practitioner, by the end of this NLP book, you'll have the confidence to use AWS AI services to build powerful NLP applications. What you will learnAutomate various NLP workflows on AWS to accelerate business outcomesUse Amazon Textract for text, tables, and handwriting recognition from images and PDF filesGain insights from unstructured text in the form of sentiment analysis, topic modeling, and more using Amazon ComprehendSet up end-to-end document processing pipelines to understand the role of humans in the loopDevelop NLP-based intelligent search solutions with just a few lines of codeCreate both real-time and batch document processing pipelines using PythonWho this book is for If you're an NLP developer or data scientist looking to get started with AWS AI services to implement various NLP scenarios quickly, this book is for you. It will show you how easy it is to integrate AI in applications with just a few lines of code. A basic understanding of machine learning (ML) concepts is necessary to understand the concepts covered. Experience with Jupyter notebooks and Python will be helpful.

Advances in VLSI, Communication, and Signal Processing David Harvey 2020-10-14 This book comprises select peer-reviewed papers from the International Conference on VLSI, Communication and Signal processing (VCAS) 2019, held at Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj, India. The contents focus on latest research in different domains of electronics and communication engineering, in particular microelectronics and VLSI design, communication systems and networks, and signal and image processing. The book also discusses the emerging applications of novel tools and techniques in image, video and multimedia signal processing. This book will be useful to students, researchers and professionals working in the electronics and communication domain.

Operations Research D S Hira 1992 The author have used numerical examples as the means for presentation of the underlying ideas of different operations research techniques.Accordingly,a large number of comprehensive solved examples,taken from a variety of fields,have been added in every chapter and they are followed by a set of unsolved problems with answers(and hints wherever required)through which readers can test their understanding of the subject matter.The book,in its present form,contains around 650,examples,1,280 illustrative diagrams.

Cognitive Robotics Hooman Samani 2015-10-16 The kimono-clad android robot that recently made its debut as the new greeter at the entrance of Tokyo's Mitsukoshi department store is just one example of the rapid advancements being made in the field of robotics. Cognitive robotics is an approach to creating artificial intelligence in robots by enabling them to learn from and respond to real-world situations, as opposed to pre-programming the robot with specific responses to every conceivable stimulus. Presenting the contributions of international experts from various disciplines within the field, Cognitive Robotics provides novel material and discusses advanced approaches in the field of intelligent robotics. It explains the various aspects of the topic to provide readers with a solid foundation on the subject. This edited collection presents theoretical research in cognitive robotics. It takes a multidisciplinary approach that considers the artificial intelligence, physical, chemical, philosophical, psychological, social, cultural, and ethical aspects of this rapidly emerging field. The editor is a prominent researcher whose Lovotics research into emotional bonds with robots is widely recognized. Supplying an accessible introduction to cognitive robotics, the book considers computational intelligence for cognitive robotics based on informationally structured space. It examines how people respond to robots and what makes robots psychologically appealing to humans. The book contextualizes concepts in the history of studies on intelligence theories and includes case studies of different types of robots in action. Although ideal for robotics researchers and professionals, this book is also suitable for use as a supporting textbook in advanced robotics courses at both the undergraduate and graduate levels.

Coherence and Quantum Optics VI J.H. Eberly 2012-12-06 The conference, held at the U. of Rochester in June 1989, was a sequel to five earlier meetings in this series, held in 1960, 1966, 1972, 1977 and 1983. This volume contains abbreviated versions of most of the 252 papers presented, addressing such topics as laser spectroscopy, photon statistics, pha

Advances in Communication Systems and Networks J. Jayakumari 2020-06-13 This book presents the selected peer-reviewed papers from the International Conference on Communication Systems and Networks (ComNet) 2019. Highlighting the latest findings, ideas, developments and applications in all areas of

advanced communication systems and networking, it covers a variety of topics, including next-generation wireless technologies such as 5G, new hardware platforms, antenna design, applications of artificial intelligence (AI), signal processing and optimization techniques. Given its scope, this book can be useful for beginners, researchers and professionals working in wireless communication and networks, and other allied fields.

Intelligent Systems and Control: Principles and Applications Laxmidhar Behera 2009-12-24 Intelligent Systems and Control: Principles and Applications is a textbook for undergraduate level courses on intelligent control, intelligent systems, adaptive control, and non-linear control. The book covers primers in neural networks, fuzzy logic, and non-linear control so that readers can easily follow intelligent control techniques.

Problems in Operation Research (Principles & Solution) D S Hira 1991 We take great pleasure in presenting to the readers the second throughly revised edition of the book after a number of reprints.The suggestions received from the readers have been carefully incorporated in this edition and almost the entire subject matter has been reorganised, revised and rewritten.

Basic Electric Circuit Theory Isaak D. Mayergoyz 2012-12-02 This is the only book on the market that has been conceived and deliberately written as a one-semester text on basic electric circuit theory. As such, this book employs a novel approach to the exposition of the material in which phasors and ac steady-state analysis are introduced at the beginning. This allows one to use phasors in the discussion of transients excited by ac sources, which makes the presentation of transients more comprehensive and meaningful. Furthermore, the machinery of phasors paves the road to the introduction of transfer functions, which are then used in the analysis of transients and the discussion of Bode plots and filters. Another salient feature of the text is the consolidation into one chapter of the material concerned with dependent sources and operational amplifiers. Dependent sources are introduced as linear models for transistors on the basis of small signal analysis. In the text, PSpice simulations are prominently featured to reinforce the basic material and understanding of circuit analysis. Key Features * Designed as a comprehensive one-semester text in basic circuit theory * Features early introduction of phasors and ac steady-state analysis * Covers the application of phasors and ac steady-state analysis * Consolidates the material on dependent sources and operational amplifiers * Places emphasis on connections between circuit theory and other areas in electrical engineering * Includes PSpice tutorials and examples * Introduces the design of active filters * Includes problems at the end of every chapter * Priced well below similar books designed for year-long courses

Computational Methodologies for Electrical and Electronics Engineers Singh, Rajiv 2021-03-18 Artificial intelligence has been applied to many areas of science and technology, including the power and energy sector. Renewable energy in particular has experienced the tremendous positive impact of these developments. With the recent evolution of smart energy technologies, engineers and scientists working in this sector need an exhaustive source of current knowledge to effectively cater to the energy needs of citizens of developing countries. Computational Methodologies for Electrical and Electronics Engineers is a collection of innovative research that provides a complete insight and overview of the application of intelligent computational techniques in power and energy. Featuring research on a wide range of topics such as artificial neural networks, smart grids, and soft computing, this book is ideally designed for programmers, engineers, technicians, ecologists, entrepreneurs, researchers, academicians, and students.

Plant Tissue Culture: An Introductory Text Sant Saran Bhojwani 2013-03-20 Plant tissue culture (PTC) is basic to all plant biotechnologies and is an exciting area of basic and applied sciences with considerable scope for further research. PTC is also the best approach to demonstrate the totipotency of plant cells, and to exploit it for numerous practical applications. It offers technologies for crop improvement (Haploid and Triploid production, In Vitro Fertilization, Hybrid Embryo Rescue, Variant Selection), clonal propagation (Micropropagation), virus elimination (Shoot Tip Culture), germplasm conservation, production of industrial phytochemicals, and regeneration of plants from genetically manipulated cells by recombinant DNA technology (Genetic Engineering) or cell fusion (Somatic Hybridization and Cybridization). Considerable work is being done to understand the physiology and genetics of in vitro embryogenesis and organogenesis using model systems, especially Arabidopsis and carrot, which is likely to enhance the efficiency of in vitro regeneration protocols. All these aspects are covered extensively in the present book. Since the first book on Plant Tissue Culture by Prof. P.R. White in 1943, several volumes describing different aspects of PTC have been published. Most of these are compilation of invited articles by different experts or proceedings of conferences. More recently, a number of books describing the Methods and Protocols for one or more techniques of PTC have been published which should serve as useful laboratory manuals. The impetus for writing this book was to make available a complete and up-to-date text covering all basic and applied aspects of PTC for the students and early-career researchers of plant sciences and plant / agricultural biotechnology. The book comprises of nineteen chapters profusely illustrated with self-explanatory illustrations. Most of the chapters include well-tested protocols and relevant media compositions that should be helpful in conducting laboratory experiments. For those interested in further details, Suggested Further Reading is given at the end of each chapter, and a Subject and Plant Index is provided at the end of the book.

Introducing Play Framework Prem Kumar Karunakaran 2020-03-06 Enter the world of rapid web application development. This gentle introduction to Play covers all you need to know: it carefully introduces the background concepts before diving into examples, making learning Play 2 enjoyable (it includes the latest Play framework version 2.8). Introducing Play Framework is crisp, up-to-the-point, and full of valuable information. You will find chapters covering the basics of Play, the sbt build system, the Ebean ORM, web services using Play, production deployment, cache, and more with actual pragmatic code snippets for common tasks. After reading and using this book, you'll be able to build and deploy Java-based web applications with the Play framework. What You Will Learn Use the Play framework to do rapid Java-based web application development Work with Play controllers and Play views Create web services using JSON and XML Persist data and access databases Use Play modules Carry out async programming Cache, deploy, and work with code snippets in Play Who This Book Is For Those with at least some prior experience with Java.

Intelligent Control of Robotic Systems Laxmidhar Behera 2020-04-07 This book illustrates basic principles, along with the development of the advanced algorithms, to realize smart robotic systems. It speaks to strategies by which a robot (manipulators, mobile robot, quadrotor) can learn its own kinematics and dynamics from data. In this context, two major issues have been dealt with; namely, stability of the systems and experimental validations. Learning algorithms and techniques as covered in this book easily extend to other robotic systems as well. The book contains MATLAB- based examples and c-codes under robot operating systems (ROS) for experimental validation so that readers can replicate these algorithms in robotics platforms.

Proceedings of First International Conference on Computational Electronics for Wireless Communications Sanyog Rawat 2022-01-03 This book includes high-quality papers presented at Proceedings of First International Conference on Computational Electronics for Wireless Communications (ICWC 2021), held at National Institute of Technology, Kurukshetra, Haryana, India, during June 11-12, 2021. The book presents original research work of academics and industry professionals to exchange their knowledge of the state-of-the-art research and development in computational electronics with an emphasis on wireless communications. The topics covered in the book are radio frequency and microwave, signal processing, microelectronics and wireless networks.

Basic Electrical & Electronics Engineering J. Gnanavadeivel 2008