

V N Mittle And Arvind Mittal Basic Electrical Engineering

BEEE - RGPV 2011Tata McGraw-Hill Education

This volume is the second part of a four-volume set (CCIS 190, CCIS 191, CCIS 192, CCIS 193), which constitutes the refereed proceedings of the First International Conference on Computing and Communications, ACC 2011, held in Kochi, India, in July 2011. The 72 revised full papers presented in this volume were carefully reviewed and selected from a large number of submissions. The papers are organized in topical sections on database and information systems; distributed software development; human computer interaction and interface; ICT; internet and Web computing; mobile computing; multi agent systems; multimedia and video systems; parallel and distributed algorithms; security, trust and privacy.

Fundamentals of Experimentation * Basic Experiments in Electrical Engineering *

Fundamentals of D.C. Machine * Experimentation on D.C. Machine *

Fundamentals of Transformer * Experimentation on Transformers *

Fundamentals of Induction Motor * Experimentation on Induction Motors *

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Fundamentals of Synchronous Machine * Experimentation on Synchronous Machines * Viva-Voce Questions (with answer) on Fundamentals of Electrical Engineering * Viva-voce Questions on D.C. Machines * Viva-voce Questions on Transformer * Viva-voce Questions on Induction Motor * Viva-voce Questions on Synchronous Machines

This third edition of Basic Electrical Engineering provides a lucid exposition of the principles of electrical engineering. The book provides an exhaustive coverage of topics such as network theory and analysis, magnetic circuits and energy conversion, ac and dc machines, basic analogue instruments, and power systems. The book also gives an introduction to illumination concepts.

Loyalty is one of the main assets of a brand. In today's markets, achieving and maintaining loyal customers has become an increasingly complex challenge for brands due to the widespread acceptance and adoption of diverse technologies by which customers communicate with brands. Customers use different channels (physical, web, apps, social media) to seek information about a brand, communicate with it, chat about the brand and purchase its products. Firms are thus continuously changing and adapting their processes to provide customers with agile communication channels and coherent, integrated brand experiences through the different channels in which customers are present. In this context,

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understanding how brand management can improve value co-creation and multichannel experience—among other issues—and contribute to improving a brand's portfolio of loyal customers constitutes an area of special interest for academics and marketing professionals. This Special Issue explores new areas of customer loyalty and brand management, providing new insights into the field. Both concepts have evolved over the last decade to encompass such concepts and practices as brand image, experiences, multichannel context, multimedia platforms and value co-creation, as well as relational variables such as trust, engagement and identification (among others).

Designed for the first year engineering students of all branches in RGPV, this text offers detailed coverage of Basic Electrical and Electronics Engineering course. The emphasis is given on clarification of basic concepts, principles and techniques. Enriched with lucid language, it covers the complete syllabus of RGPV. Numerous solved examples and practice questions are given in the text for better understanding of the concepts.

This book, in the form of a memorandum to the president, suggests two alternative approaches the United States could take to trade policy.

This book explains to governments, decision makers and disaster professionals the potential uses of recent technologies for disaster monitoring and risk reduction based

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on the knowledge and experience of prominent experts/researchers in the relevant fields. It discusses the application of recent technological developments for emerging disaster risks in today's societies and deliberates on the various aspects of disaster risk reduction strategies, especially through sustainable community resilience and responses. This book consists of selected invited papers on disaster management, which focus on community resilience and responses towards disaster risk reduction based on experiences, and closely examines the coordinated research activities involving all stakeholders, especially the communities at risk. Many regions of the world and aspects of disaster risk and its management are covered. It is described how recent technologies will support better understanding and action to reduce the number and impact of disasters in future. The principal audience for this book is researchers, urban planners, policy makers, as well as students.

Extensively revised and expanded to present the state-of-the-art in the field of magnetic design, this third edition presents a practical approach to transformer and inductor design and covers extensively essential topics such as the area product, A_p , and core geometry, K_g . The book provides complete information on magnetic materials and core characteristics using step-by-step design examples and presents all the key components for the design of lightweight, high-frequency aerospace transformers or low-frequency commercial transformers. Written by a specialist with more than 47 years of experience in the field, this volume covers magnetic design theory with all of the

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relevant formulas.

Arguably the oldest form of health care, Ayurveda is often referred to as the "Mother of All Healing." Although there has been considerable scientific research done in this area during the last 50 years, the results of that research have not been adequately disseminated. Meeting the need for an authoritative, evidence-based reference, Scientific Ba

A one of its kind bilingual learning course for learning vernacular languages nfrom Hindi and vica-verca

Tuberculosis (TB) is an infectious disease caused by the bacterium *Mycobacterium tuberculosis* (MTB) and it represents a persistent public health threat for a number of complex biological and sociological reasons. According to the most recent Global Tuberculosis Report (2019) edited by the World Health Organization (WHO), TB is considered the ninth cause of death worldwide and the leading cause of mortality by a single infectious agent, with the highest rate of infections and death toll rate mostly concentrated in developing and low-income countries. We present here the editorial section to the Special Issue entitled "Mycobacterium tuberculosis Pathogenesis, Infection Prevention and Treatment" that includes 7 research articles and a review. The scientific contributions included in the Special Issue mainly focus on the characterization of MTB strains emerging in TB endemic countries as well as on multiple mechanisms adopted by the bacteria to resist and to adapt to antitubercular

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therapies.

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.

It's no secret that certain social groups have predominated India's business and trading history, with business traditionally being the preserve of particular `Bania' communities. However, the past four or so decades have seen a widening of the social base of Indian capital, such that the social profile of Indian business has expanded beyond recognition, and entrepreneurship and commerce in India are no longer the exclusive bastion of the old mercantile castes. In this meticulously researched book ? acclaimed for being the first social history to document and understand India's new entrepreneurial groups ? Harish Damodaran looks to

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answer who the new `wealth creators? are, as he traces the transitional entry of India?s middle and lower peasant castes into the business world. Combining analytical rigour with journalistic flair, India?s New Capitalists is an essential read for anyone seeking to understand the culture and evolution of business in contemporary South Asia.

This book deals with the fundamentals of electrical engineering concepts like design & application of circuitry, equipment for power generation & distribution and machine control. Features Transformers discussed in detail. Thoroughly revised chapters on Single and Three-Phases Induction Motors. New chapter on:
1. Three-Phase Alternator
2. Electromechanical Energy Conversion
3. Testing of DC Machines

This book presents select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book discusses interdisciplinary areas such as automobile engineering, mechatronics, applied and structural mechanics, bio-mechanics, biomedical instrumentation, ergonomics, biodynamic modeling, nuclear engineering, agriculture engineering, and farm machineries. The contents of the book will benefit both researchers and professionals.

This book presents comprehensive coverage of all the basic concepts in

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electrical engineering. It is designed for undergraduate students of almost all branches of engineering for an introductory course in essentials of electrical engineering. This book explains in detail the properties of different electric circuit elements, such as resistors, inductors and capacitors. The fundamental concepts of dc circuit laws, such as Kirchhoff's current and voltage laws, and various network theorems, such as Thevenin's theorem, Norton's theorem, superposition theorem, maximum power transfer theorem, reciprocity theorem and Millman's theorem are thoroughly discussed. The book also presents the analysis of ac circuits, and discusses transient analysis due to switch operations in ac and dc circuits as well as analysis of three-phase circuits. It describes series and parallel RLC circuits, magnetic circuits, and the working principle of different kinds of transformers. In addition, the book explains the principle of energy conversion, the operating characteristics of dc machines, three-phase induction machines and synchronous machines as well as single-phase motors. Finally, the book includes a discussion on technologies of electric power generation along with the different types of energy sources. Key Features : Includes numerous solved examples and illustrations for sound conceptual understanding. Provides well-graded chapter-end problems to develop the problem-solving capability of the students. Supplemented with three appendices

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addressing matrix algebra, trigonometric identities and Laplace transforms of commonly used functions to help students understand the mathematical concepts required for the study of electrical engineering.

The book captures recent developments in India's business environment and attempts to provide a clear and crisp analysis of the same from the point of view of facilitating corporate adjustment. The book lays emphasis on the working of the economy and the operational mechanism of macro-economic policies as prerequisites for a proper understanding of the dynamics of business environment. It seeks to strengthen the skills of the student and the future manager to understand, analyse, and predict business environment and draw inferences and implications for corporate adjustment. Apart from comprehensive treatment of the latest curriculum, it includes many new topics of high contemporary relevance like Key indicators of Macro-environment; Risk in Business Environment; How Monetary Policy Works; The Operation of Fiscal Policy; Monetary and Credit Policy Environment; New Competition Law; Competitive Environment; Technological Environment; Corporate Governance; Money Market; The Services Sector and Globalization of the Economy. The following are the other distinctive characteristics of the book: v The matter is presented in a clear, crisp and accessible style. v Obsolete and irrelevant data are carefully avoided and

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only brief, latest and authentic data (up to the year 2003) is used.v Concept and illustration boxes are provided throughout the text to facilitate proper understanding.v Apart from review questions, practical and field assignments are added to each chapter.v The concepts and terms are highlighted throughout the text and listed at the end of each chapter.v Each chapter is followed by a focussed and latest supplementary reading list for more serious students.

Basic Electrical and Electronics Engineering is a renowned book that attempts to provide a thorough coverage on basics of electrical and electronics engineering in a single volume. This second edition of the book has been carefully revised to include important topics like domestic wiring, electrical installations, instrument transformers, battery, etc. Written in a lucid manner, it enables the learners to apply the basic concepts of electrical and electronics engineering for multi-disciplinary tasks and lays the foundation for higher level courses. Rich pool of problems and appendices enhance the utility of the book and make it a lasting resource for students and instructors of all branches of engineering.

THE ESOPHAGUS The Esophagus investigates the anatomy, physiology, and pathology of the esophagus. This sixth edition, revised and updated throughout, also explores the diagnosis and treatment of various esophageal conditions. It includes treatment guidelines approved by the two largest gastroenterology

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societies, the ACG and AGA, as befits a work co-edited by two former presidents of those organizations. Advancements in diagnostics are presented, as are developments in the surgical and drug therapies. Presented in full colour, and boasting an unrivalled team of editors and contributing authors, The Esophagus Sixth Edition will find a home wherever the anatomy, physiology, and pathology of the esophagus are studied and taught. This book is accompanied by a website containing all the figures from the book in PowerPoint format.

www.wiley.com/go/richter/esophagus6e Praise for the Fifth Edition: “There is absolutely no doubt that this edition of the textbook will maintain its status as the go-to reference for esophageal conditions, and will remain a highly utilized and clinically useful resource for novice and experienced physicians and surgeons alike.” (Gastroenterology, 1 July 2013)

This book presents high-quality, original contributions (both theoretical and experimental) on Information Security, Machine Learning, Data Mining and Internet of Things (IoT). It gathers papers presented at ICETIT 2019, the 1st International Conference on Emerging Trends in Information Technology, which was held in Delhi, India, in June 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine

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learning, data analytics and cloud computing, security and privacy, and next generation computing technologies.

11th International Conference on Environment, Ecosystems and Development (EED '13) 2nd International Conference on Sustainable Tourism and Cultural Heritage (STACH '13)

This two-volume work is a testament to the increasing interest in the role of microbes in sustainable agriculture and food security. Advances in microbial technologies are explored in chapters dealing with topics such as carbon sequestration, soil fertility management, sustainable crop production, and microbial signaling networks. Volume I is a collection of research findings that invites readers to examine the application of microbes in reinstating degraded ecosystems and also in establishing sustainable croplands. Highly readable entries attempt to close the knowledge gap between soil microbial associations and sustainable agriculture. An increase in the global population with changing climate is leading to environments of various abiotic and biotic stresses for agricultural crops. It therefore becomes important to identify the techniques to improve soil fertility and function using different microbial groups such as actinobacteria, microalgae, fluorescent pseudomonads and cyanobacterial systems. These are examined in this volume in greater detail. This work is a

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significant contribution to research in this increasingly important discipline, and will appeal to researchers in microbiology, agriculture, environmental sciences, and soil and crop sciences.

Features The book provides a compressive overview of the fundamental skills underlying the mechanism and control of manipulators. Detailed chapter on Velocity Transformations, jacobian and Singularities. Trajectory Planning is developed using both joint space and Cartesian space methods. Dynamic Modeling is treated by Lagrange-Euler and Euler-Newton formulations; complex derivations are put in the appendix to ensure a smooth flow for the reader. A comprehensive chapter on Robotic Control covering control strategies like PD, PID, computed torque control, force and impedance control at an appropriate level. A METLAB tutorial on using the package for Robotics is included as an appendix. A full chapter on the industrial applications of robots. All important industrial robot configurations with varying degrees of freedom are covered in various chapters and solved examples. An elaborate chapter (Chapter 9) devoted to Robotic Sensors and Vision. Includes over 50 solved examples and more than 270 simple-to-complex end-of-chapter exercises. Appendix on the underlying maths – Linear Algebra, Moment of Inertia Tensor and Equations of Motion There has been overwhelming response from the readers of this text. Based on their

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feedback and suggestions, this book has been enlarged and thoroughly revised in its Fifth Edition. Besides updating the sixteen chapters of the previous edition, it now incorporates ten new chapters dealing with synchronous machines, single/three phase motors, ac commutator motors and stepper motors. The present text, written in a lucid style, is the culmination of more than four decades of the author's long experience in teaching of electrical engineering subjects, especially electrical machines at undergraduate and postgraduate levels. Key features

- Easy to follow, understand and implement.
- Includes about 440 worked-out examples.
- Contains 721 MCQs (with answers) to help students measure their understanding and analysing skills and evaluate their knowledge.
- Offers about 515 chapter-end exercises with answers to build problem solving skills and gain hands-on experience and self-confidence.
- Includes many real-life examples to enable students to analyse and implement theoretical concepts in real-life situations.
- Difficult concepts like commutation explained in great detail so as to make students grasp concept with clear understanding.

The book is primarily designed for undergraduate and postgraduate students of Electrical and Electronics Engineering. Besides, the students of all other branches of engineering will find this text useful for their course study. 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

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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.

This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics.

This two-volume set, CCIS 0269-CCIS 0270, constitutes the refereed post-conference proceedings of the International Conference on Global Trends in Computing and Communication, ObCom 2011, held in Vellore, India, in December 2011. The 173 full papers presented together with a keynote paper and invited papers were carefully reviewed and selected from 842 submissions. The conference addresses all current issues associated with computing, communication and information. The proceedings consists of invited papers dealing with the review of performance models of computer and communication systems and contributed papers that feature topics such as networking, cloud computing, fuzzy logic, mobile communication, image processing, navigation systems, biometrics and Web services covering literally all the vital areas of

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the computing domains.

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

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