

OBJECTIVE FOR ELECTRONICS AND COMMUNICATION

Objective Electrical, Electronic and Telecommunication Engineering

A Textbook on Electrical Technology

Objective Electronics & Communication Engineering By GK Mithal

GKP's 'Objective' series has been used by engineering students over the years to prepare for GATE, PSU examinations and campus recruitment tests. The series includes five books i.e. Computer Science and IT, Electrical, Electronics and Communication, Mechanical and Civil. In order to make students thorough with the variety of questions, each book in this series provides them with questions segregated into two sections. The first section includes a set of practice exercise under each topic and the second section provides previous year's questions of exams such as GATE and various PSUs exams. Each question in the later section has been tagged with the exam name to make the preparation all the more easier. This combination of conceptual questions and previous year's questions would completely solve the purpose of the students for a quick practice with complete preparation for the exam. The books in this series will also be helpful to prepare for the technical section of various campus recruitment tests.

Electronics & Communications Engg. Objective Type

All India PSC AE/PSU Electronics & Communication Engineering VOLUME-1 Previous Years Chapter-wise and Sub-topic-wise Objective Solved Papers

Basic Electrical and Electronics Engineering

A Textbook on Electrical Technology

Electronics Engineering (O.T.)

It is very important to go through the previous year question papers of ESE as they are the most reliable source of information for both ESE Prelims and ESE Mains examination. While preparing for ESE 2020, it is very important to practice previous year question papers. If you are able to solve question papers in excess of 10 years, you are sure to clear UPSC ESE Prelims examination. IES Master's Electronics and Communication Engineering ESE Topicwise Objective Solved Paper-II gives detailed solutions for the past 29 years ESE question papers. Unlike other ESE solution books published by some of the leading institutes/publishers, the solution books from IES Master offer topicwise solutions with explanations. The emphasis is clearly on the understanding of concepts and building upon a holistic picture. So as you finish a topic, say Controllers and Compensators, you will find all the previous years' question papers with detailed explanation under that particular topic.

Electronics & Communication Engineering VOLUME-1

The book contains high quality papers presented in the Fifth International Conference on Innovations in Electronics and Communication Engineering (ICIECE 2016) held at Guru Nanak Institutions, Hyderabad,

India during 8 and 9 July 2016. The objective is to provide the latest developments in the field of electronics and communication engineering specially the areas like Image Processing, Wireless Communications, Radar Signal Processing, Embedded Systems and VLSI Design. The book aims to provide an opportunity for researchers, scientists, technocrats, academicians and engineers to exchange their innovative ideas and research findings in the field of Electronics and Communication Engineering.

Electrical, Electronic and Telecommunication Engineering

How to develop innovative architectures based on emerging molecular devices? The simple yet ambitious objective of Molecular Electronics Materials, Devices and Applications is to give the reader the necessary information to understand the challenges and opportunities of this recent field of research. In order to provide a good overview and understanding, the main molecular devices are first presented. A complete set of presentation and discussion of the actual molecular architectures follows. Nevertheless, another goal of Molecular Electronics Materials, Devices and Applications is also to promote a practical approach. As a starting point for future developments, a pragmatic methodology for VHDL-AMS device modelling and circuit design based on experimental data is then proposed. It includes an original fault tolerant memory architecture based on molecular electronics.

Objective Electrical, Electronic and Telecommunication Engineering

Covers the different equipment used in communication electronics. This book gives a description of mathematical analysis and operation, as well as the uses and limitations of each equipment. It includes review and objective questions which are placed at the end of each chapter.

ESE 2020 - Electronics and Communication Engineering ESE Topicwise Objective Solved Paper - 2

SGN.The Karnataka PG CET PDF-Electronics & Communication Engineering Subject PDF eBook Covers Objective Questions From Various Competitive Exams With Answers.

Innovations in Electronics and Communication Engineering

The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum

Molecular Electronics Materials, Devices and Applications

Real-world engineering problems often require concurrent optimization of several design objectives, which are conflicting in cases. This type of optimization is generally called multi-objective or multi-criterion optimization. The area of research that applies evolutionary methodologies to multi-objective optimization is of special and growing interest. It brings a viable computational solution to many real-world problems. Generally, multi-objective engineering problems do not have a straightforward optimal design. These kinds of problems usually inspire several solutions of equal efficiency, which achieve different trade-offs. Decision makers' preferences are normally used to select the most adequate design. Such preferences may be dictated before or after the optimization takes place. They may also be introduced interactively at different levels of the optimization process. Multi-objective optimization methods can be subdivided into classical and evolutionary. The classical methods usually aim at a single solution while the evolutionary methods provide a whole set of so-called Pareto-optimal solutions. Evolutionary Multi-Objective System Design: Theory and Applications provides a representation of the state-of-the-art in evolutionary multi-objective optimization

research area and related new trends. It reports many innovative designs yielded by the application of such optimization methods. It also presents the application of multi-objective optimization to the following problems: Embrittlement of stainless steel coated electrodes Learning fuzzy rules from imbalanced datasets Combining multi-objective evolutionary algorithms with collective intelligence Fuzzy gain scheduling control Smart placement of roadside units in vehicular networks Combining multi-objective evolutionary algorithms with quasi-simplex local search Design of robust substitution boxes Protein structure prediction problem Core assignment for efficient network-on-chip-based system design

Communication Electronics

In the present edition, authors have made sincere efforts to make the book up-to-date. A notable feature is the inclusion of two chapters on Power System. It is hoped that this edition will serve the readers in a more useful way.

Karnataka PG CET PDF-Electronics & Communication Engineering Subject PDF eBook

This book describes how evolutionary algorithms (EA), including genetic algorithms (GA) and particle swarm optimization (PSO) can be utilized for solving multi-objective optimization problems in the area of embedded and VLSI system design. Many complex engineering optimization problems can be modelled as multi-objective formulations. This book provides an introduction to multi-objective optimization using meta-heuristic algorithms, GA and PSO and how they can be applied to problems like hardware/software partitioning in embedded systems, circuit partitioning in VLSI, design of operational amplifiers in analog VLSI, design space exploration in high-level synthesis, delay fault testing in VLSI testing and scheduling in heterogeneous distributed systems. It is shown how, in each case, the various aspects of the EA, namely its representation and operators like crossover, mutation, etc, can be separately formulated to solve these problems. This book is intended for design engineers and researchers in the field of VLSI and embedded system design. The book introduces the multi-objective GA and PSO in a simple and easily understandable way that will appeal to introductory readers.

Electronics, Communications and Networks IV

From the explosion of interest, research, and applications of evolutionary computation a new field emerges- evolutionary electronics. Focused on applying evolutionary computation concepts and techniques to the domain of electronics, many researchers now see it as holding the greatest potential for overcoming the drawbacks of conventional design techniques. Evolutionary Electronics: Automatic Design of Electronic Circuits and Systems by Genetic Algorithms formally introduces and defines this area of research, presents its main challenges in electronic design, and explores emerging technologies. It describes the evolutionary computation paradigm and its primary algorithms, and explores topics of current interest, such as multi-objective optimization. The authors examine numerous evolutionary electronics applications, draw conclusions about those applications, and sketch the future of evolutionary computation and its applications in electronics. In coming years, the appearance of more and more advanced technologies will increase the complexity of optimization and synthesis problems, and evolutionary electronics will almost certainly become a key to solving those problems. Evolutionary Electronics is your key to discovering and unlocking the potential of this promising new field.

Evolutionary Multi-Objective System Design

It is very important to go through the previous year question papers of ESE as they are the most reliable source of information for both ESE Prelims and ESE Mains examination. While preparing for ESE 2020, it is very important to practice previous year question papers. If you are able to solve question papers in excess of

10 years, you are sure to clear UPSC ESE Prelims examination. IES Master's Electronics and Communication Engineering ESE Topicwise Objective Solved Paper-I gives detailed solutions for the past 29 years ESE question papers. Unlike other ESE solution books published by some of the leading institutes/publishers, the solution books from IES Master offer topicwise solutions with explanations. The emphasis is clearly on the understanding of concepts and building upon a holistic picture. So as you finish a topic, say Integrated Circuits, you will find all the previous years' question papers with detailed explanation under that particular topic.

Multi-Objective Optimization in Physical Synthesis of Integrated Circuits

The Book Is Meant For The Students Pursuing A Beginners' Course In Electronics. Current Syllabi Of Basic Electronics Included In Physics (Honours) Curriculum Of Different Universities And Those Offered In Various Engineering And Technical Institutions Have Been Consulted In Preparing The Material Contained Herein. In 22 Chapters, The Book Deals With Formation Of Energy Bands In Solids; Electron Emission From Solid Surfaces; Vacuum Tubes; Properties Of Semiconductors; Pn Junction Diodes; Rectifiers; Voltage Multipliers; Clipping And Clamping Circuits; Bipolar Junction Transistors; Basic Voltage And Power Amplifiers; Feedback In Amplifiers; Regulated Power Supply; Sinusoidal Oscillators; Multivibrators; Modulation And Demodulation; Jfet And Mosfet; Ics; Op Amps; Special Semiconductor Devices, Such As Phototransistor, Scr, Triac, Diac, Ujt, Impatt Diode, Gunn Diode, Pin Diode, IGBT; Digital Circuits; Cathode Ray Oscilloscope; Radio Communication; Television; Radar And Laser. Fundamental Principles And Applications Are Discussed Herein With Explanatory Diagrams In A Clear Concise Way. Physical Aspects Are Emphasized; Mathematical Details Are Given, When Necessary. Many Of The Problems And Review Questions Included In The Book Are Taken From Recent Examination Papers. Some Objective-Type Questions Typically Set In Different Competitive Examinations Are Also Given At The End Of Each Chapter. Salient Features: * Small Geometry Effects And Effects Of Interconnects Included In Chapter 18. * A Quick Discussion On Fibre Optic Communication System In Chapter 22. * Revised And Updated To Cope With The Current Syllabi Of Some More Universities And Technical Institutions. * Chapters 6, 8, 16, 18, And 22 Have Been Changed With The Addition Of New Material. * Some More University Questions And Problems Have Been Included.

Objective Electrical Technology

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the 1st International Conference on Advancements of Medical Electronics (ICAME2015). The conference is organized jointly by the Department of Biomedical Engineering and Electronics and Communication Engineering, JIS College of Engineering, West Bengal, India. The primary objective of the conference is to strengthen interdisciplinary research and its applications for the welfare of humanity. A galaxy of academicians, professionals, scientists, statesman and researchers from different parts of the country and abroad got together and shared their knowledge. The book presents research articles of medical image processing & analysis, biomedical instrumentation & measurements, DSP & clinical applications, embedded systems & its applications in healthcare. The book can be referred as a tool for further research.

Application of Evolutionary Algorithms for Multi-objective Optimization in VLSI and Embedded Systems

Multiobjective Shape Design in Electricity and Magnetism is entirely focused on electric and magnetic field synthesis, with special emphasis on the optimal shape design of devices when conflicting objectives are to be fulfilled. Direct problems are solved by means of finite-element analysis, while evolutionary computing is used to solve multiobjective inverse problems. This approach, which is original, is coherently developed throughout the whole manuscript. The use of game theory, dynamic optimisation, and Bayesian imaging strengthens the originality of the book. Covering the development of multiobjective optimisation in the past ten years, Multiobjective Shape Design in Electricity and Magnetism is a concise, comprehensive and up-to-

date introduction to this research field, which is growing in the community of electricity and magnetism. Theoretical issues are illustrated by practical examples. In particular, a test problem is solved by different methods so that, by comparison of results, advantages and limitations of the various methods are made clear.

Evolutionary Electronics

In its 40th year, \u0093Principles of Electronics\u0094 remains a comprehensive and succinct textbook for students preparing for B. Tech, B. E., B.Sc., diploma and various other engineering examinations. It also caters to the requirements of those readers who wish to increase their knowledge and gain a sound grounding in the basics of electronics. Concepts fundamental to the understanding of the subject such as electron emission, atomic structure, transistors, semiconductor physics, gas-filled tubes, modulation and demodulation, semiconductor diode and regulated D.C. power supply have been included, added and updated in the book as full chapters to give the reader a well-rounded view of the subject.

ESE 2020 - Electronics and Communication Engineering ESE Topicwise Objective Solved Paper - 1

GKP's 'Objective' series has been used by engineering students over the years to prepare for GATE, PSU examinations and campus recruitment tests. The series includes five books i.e. Computer Science and IT, Electrical, Electronics and Communication, Mechanical and Civil. In order to make students thorough with the variety of questions, each book in this series provides them with questions segregated into two sections. The first section includes a set of practice exercise under each topic and the second section provides previous year's questions of exams such as GATE and various PSUs exams. Each question in the later section has been tagged with the exam name to make the preparation all the more easier. This combination of conceptual questions and previous year's questions would completely solve the purpose of the students for a quick practice with complete preparation for the exam. The books in this series will also be helpful to prepare for the technical section of various campus recruitment tests.

Electronics (fundamentals And Applications)

With growing developments in artificial intelligence and focus on swarm behaviors; algorithms have been utilized in solving a variety of problems in the field of engineering. This approach has been specifically suited to face the challenges in electric and electronic engineering. Swarm Intelligence for Electric and Electronic Engineering provides an exchange of knowledge on the advances, discoveries, and improvements of swarm intelligence in electric and electronic engineering. This comprehensive collection aims to bring together new swarm-based algorithms as well as approaches to complex problems and various real-world applications.

Advancements of Medical Electronics

SGN.The PGCIL-POWERGRID Diploma Trainee (Electronics and Communication) Exam PDF eBook Covers Electronics and Communication Subject Objective Questions From Various Competitive Exams With Answers.

Electronics Fundamentals and Applications

SGN.The eBook Karnataka PG CET M.E.-M.Tech. Entrance Exam Covers Study material And Objective Questions from Various Similar Exams With Answers.

Multiobjective Shape Design in Electricity and Magnetism

The Department of Electronics and Communication Engineering of KIET Group of Institutions, Delhi-NCR organized the 4th International Conference ICCE-2020 during November 28-29, 2020. Information compiled in this book is based on the 114 research papers of excellent quality covering different domains of Electronics and Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering. The subject areas treated in the book are: Satellite, Radar and Microwave Techniques, Secure, Smart, and Reliable Networks, Next Generation Networks, Devices & Circuits, Signal & Image Processing, New Emerging Technologies, having the central focus on Recent Trends in Communication & Electronics (ICCE-2020). In addition, a few themes based on Special Sessions have also been conducted in ICCE-2020. The objective of the book resulting from the 4th International Conference on Recent Trends in Communication & Electronics (ICCE-2020) is to provide a resource for the study and research work for an interested audience comprising of researchers, students, audience, and practitioners in the areas of Communications & Computing Systems.

Electrical Engineering (O.T.)

Real-world engineering problems often require concurrent optimisation of several design objectives, which are conflicting in most of the cases. Such an optimisation is generally called multi-objective or multi-criterion optimisation. The area of research that applies evolutionary methodologies to multi-objective optimisation is of special and growing interest. It brings a solution to many yet-opened real-world problems and questions. Generally, multi-objective engineering problems have no single optimal design, but several solutions of equal efficiency allowing different trade-offs. The decision maker's preferences are normally used to select the most adequate design. Such preferences may be dictated before or after the optimisation takes place. They may also be introduced interactively at different levels of the optimisation process. Multi-objective optimisation methods can be subdivided into classical and evolutionary. The classical methods usually aim at a single solution while the evolutionary methods target a whole set of so-called Pareto-optimal solutions. of the evolutionary multi-objective optimisation research area and related new trends. Furthermore, it reports many innovative designs yielded by the application of such optimisation methods. The contents of the book are divided into two main parts: evolutionary multi-objective optimisation and evolutionary multi-objective designs.

Principles of Electronics [LPSPE]

Fundamentals of Power Electronics, Third Edition, is an up-to-date and authoritative text and reference book on power electronics. This new edition retains the original objective and philosophy of focusing on the fundamental principles, models, and technical requirements needed for designing practical power electronic systems while adding a wealth of new material. Improved features of this new edition include: new material on switching loss mechanisms and their modeling; wide bandgap semiconductor devices; a more rigorous treatment of averaging; explanation of the Nyquist stability criterion; incorporation of the Tan and Middlebrook model for current programmed control; a new chapter on digital control of switching converters; major new chapters on advanced techniques of design-oriented analysis including feedback and extra-element theorems; average current control; new material on input filter design; new treatment of averaged switch modeling, simulation, and indirect power; and sampling effects in DCM, CPM, and digital control. Fundamentals of Power Electronics, Third Edition, is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first-year graduate students interested in converter circuits and electronics, control systems, and magnetic and power systems. It will also be an invaluable reference for professionals working in power electronics, power conversion, and analog and digital electronics.

Objective Electrical Engineering By GK Mithal

This book discusses surrogate modeling of high-frequency structures including antenna and microwave components. The focus is on constrained or performance-driven surrogates. The presented techniques aim at

addressing the limitations of conventional modeling methods, pertinent to the issues of dimensionality and parameter ranges that need to be covered by the surrogate to ensure its design utility. Within performance-driven methodologies, mitigation of these problems is achieved through appropriate confinement of the model domain, focused on the regions promising from the point of view of the relevant design objectives. This enables the construction of reliable surrogates at a fraction of cost required by conventional methods, and to accomplish the modeling tasks where other techniques routinely fail. The book provides a broad selection of specific frameworks, extensively illustrated using examples of real-world microwave and antenna structures along with numerous design examples. Furthermore, the book contains introductory material on data-driven and physics-based surrogates. The book will be useful for the readers working in the area of high-frequency electronics, including microwave engineering, antenna design, microwave photonics, magnetism, especially those that utilize electromagnetic (EM) simulation models in their daily routines. Covers performance-driven and constrained modeling methods, not available in other books to date; Discusses of a wide range of practical case studies including a variety of microwave and antenna structures; Includes design applications of the presented modeling frameworks, including single- and multi-objective parametric optimization.

Swarm Intelligence for Electric and Electronic Engineering

Electronic Communication has been one of the most popular textbooks in its field for many years. This expanded Sixth Edition utilizes the same user friendly format to prepare students for the operation, installation, and maintenance of most modern electronic and radio communication systems. Performance objectives have been added to each chapter to guide student focus. Electronic Communication provides information on the interrelationship of voltage, current, resistance, inductance, and capacitance as well as discussions of various active devices currently in use. While the text emphasizes semiconductor devices and circuitry, it still retains an adequate amount of vacuum tube theory. In addition, this edition features up-to-date coverage of digital communications and fiber optics, topics that are critical to the skills development of today's communication student. To reinforce understanding of subjects just covered, check-up quizzes are inserted every few pages in most chapters, with answers on the next turned page. End-of-chapter questions, which include number references to the section or figure where the answer can be found, check comprehension of the entire chapter's material. Bold letters prefixing many end-of-chapter questions indicate that a similar question may appear in one of the specific certification license tests. The Lab Manual has been expanded to include more experiments that correlate with the revisions made to the text. As always, the manual's experiments reinforce text content and are an integrated part of the total package.

PGCIL Exam PDF-POWERGRID Diploma Trainee (Electronics and Communication) Exam PDF eBook

This book discusses response feature technology and its applications to modeling, optimization, and computer-aided design of high-frequency structures including antenna and microwave components. By exploring the specific structure of the system outputs, feature-based approaches facilitate simulation-driven design procedures, both in terms of improving their computational efficiency and reliability. These benefits are associated with the weakly nonlinear relationship between feature point coordinates and design variables, which—in the context of optimization—leads to inherent regularization of the objective functions. The book provides an overview of the subject, a definition and extraction of characteristic points, and feature-based design problem reformulation. It also outlines a number of numerical algorithms developed to handle local, global, and multi-criterial design, surrogate modeling, as well as uncertainty quantification. The discussed frameworks are extensively illustrated using examples of real microwave and antenna structures, along with numerous design cases. Introductory material on simulation-driven design, numerical optimization, as well as behavioral and physics-based surrogate modeling is also included. The book will be useful for readers working in the area of high-frequency electronics, including microwave engineering, antenna design, microwave photonics, magnetism and especially those who utilize electromagnetic (EM) simulation models in their daily routines.

Karnataka PGCET M.E.-M.Tech. Entrance Exam eBook PDF

Providing a practical, hands-on approach to the subject by encouraging students to be active participants in learning the material, this text provides performance-based objectives to enable the students to measure their own progress by informing them what they are expected to be able to do as a result of their studies. Objective Identifiers in the margins are cross-referenced with the material in each chapter which helps students to quickly locate material that will help them fulfill a given objective. Margin Notes include a running glossary of new terms, notes that highlight the difference between theory and practice, and reminders of principles covered in earlier chapters. In-chapter practice problems in the examples provide students with an immediate opportunity to apply the demonstrated principles and Summary Illustrations provide a convenient summary of circuit operating principles and applications. There are also Brain Drain problems at the end of every chapter.

Recent Trends in Communication and Electronics

Advances in Electronics and Electron Physics

Real-world Multi-objective System Engineering

Electronics And Communication Engineering Handbook: For ECE Competitive Examinations is a comprehensive book which covers almost all the basic concepts of ECE. It is written to address the needs of the students/ aspirants of the national level competitive examinations in Electronics and Communication Engineering (GATE-ECE/ IES/ BEL/ ISRO/ other PSU examinations). An extensive study of all the core subjects in electronics and communications is required to crack such examinations. This book is written to be a one-stop source for study and revision of all the important concepts in ECE, so that the students/ aspirants do not miss any important concept that might be useful for solving problems in the examination. The book is an outcome of the author's own experiential insights, and it will immensely help the students/ aspirants in finding the right way and the right approach of preparation for competitive examinations.

Fundamentals of Power Electronics

Performance-Driven Surrogate Modeling of High-Frequency Structures

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