

Gk Mithal Network Analysis

Advances in hardware technology have led to an ability to collect data with the use of a variety of sensor technologies. In particular sensor nodes have become cheaper and more efficient, and have even been integrated into day-to-day devices of use, such as mobile phones. This has led to a much larger scale of applicability and mining of sensor data sets. The human-centric aspect of sensor data has created tremendous opportunities in integrating social aspects of sensor data collection into the mining process. *Managing and Mining Sensor Data* is a contributed volume by prominent leaders in this field, targeting advanced-level students in computer science as a secondary text book or reference. Practitioners and researchers working in this field will also find this book useful.

This comprehensive reference explains the many processes needed for creating radar systems and navigation aids. Selected topics include antennas, radar targets, Doppler radar, atmospheric probing, mathematical preliminaries, hyperbolic navigation, aircraft homing systems, navigation measuring techniques, satellite navigation, and more.

Features: *Explains the many processes needed for creating radar systems and navigation aids *Topics include antennas, radar targets, Doppler radar, atmospheric probing, and more

Network analysis

IETE Technical Review

Indian Books

Objective Electronics & Communication Engineering By GK Mithal

Civil Services Success Planner

This comprehensive look at linear network analysis and synthesis explores state-space synthesis as well as analysis, employing modern systems theory to unite classical concepts of network theory. 1973 edition.

About the Book: This book is an attempt to consolidate the basic scientific studies in the machining area so that fundamental mechanics and other concepts related to primary machining processes could be understood. The book is essentially designed for senior undergraduate mechanical and production engineering students but practicing engineers will also find it useful for tool and product design. The topics covered include plastic deformation, chip formation, tool geometry, mechanics of orthogonal and oblique cutting,

measurement of cutting force, cutting temperature, tool wear and tool life, economics of machining, grinding of metals and machining vibrations. The analyses presented have been illustrated through numerical examples. Review questions and bibliography are also included. About the Author: Dr. G.K. Lal has been associated with the Indian Institute of Technology, Kanpur for the past 34 years. He retired as a Professor of Mechanical Engineering in 2003 and had earlier held the positions of Dean (1976-80) and Deputy Director (1982-88). Before joining IIT Kanpur he had taught at the Banaras Hindu University and held research positions at the University of Sherbrooke (Canada) and the Carnegie-Mellon University (USA). He also worked as a Design Engineer with the Abitibi Paper and Power Corp. of Canada.

Network Analysis & Synth

Chemical Engineering Division

Theory & Performance Of Electrical Machines

CONTINUOUS AND DISCRETE-TIME SYSTEMS, ELEMENTS OF NETWORK SYNTHESIS

Network Analysis & Synthesis (Including Linear System Analysis)

Programmable Logic Devices (PLDs) have become the key implementation medium for the vast majority of digital circuits designed today. While the highest-volume devices are still built with full-fabrication rather than field programmability, the trend towards ever fewer ASICs and more FPGAs is clear. This makes the field of PLD architecture ever more important, as there is stronger demand for faster, smaller, cheaper and lower-power programmable logic. PLDs are 90% routing and 10% logic. This book focuses on that 90% that is the programmable routing: the manner in which the programmable wires are connected and the circuit design of the programmable switches themselves. Anyone seeking to understand the design of an FPGA needs to become literate in the complexities of programmable routing architecture. This book builds on the state-of-the-art of programmable interconnect by providing new methods of investigating and measuring interconnect structures, as well as new programmable switch basic circuits. The early portion of this book provides an excellent survey of interconnection structures and circuits as they exist today. Lemieux and Lewis then provide a new way to design sparse crossbars as they are used in PLDs, and show that the method works with an empirical validation. This is one of a few routing architecture works that employ analytical methods to deal with the routing architecture design. The analysis permits interesting insights not typically possible with the standard empirical approach.

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.

Journal of the Institution of Engineers (India).

Electronics Devices And Circuits

Managing and Mining Sensor Data

International Books in Print

The Indian Publisher and Bookseller

This book addresses emerging issues concerning the integration of artificial intelligence systems in our daily lives. It focuses on the cognitive, visual, social and analytical aspects of computing and intelligent technologies, and highlights ways to improve the acceptance, effectiveness, and efficiency of said technologies. Topics such as responsibility, integration and training are discussed throughout. The book also reports on the latest advances in systems engineering, with a focus on societal challenges and next-generation systems and applications for meeting them. Based on the AHFE 2020 Virtual Conference on Software and Systems Engineering, and the AHFE 2020 Virtual Conference on Artificial Intelligence and Social Computing, held on July 16–20, 2020, it provides readers with extensive information on current research and future challenges in these fields, together with practical insights into the development of innovative services for various purposes.

Introduction|Basic Laws|Methods Of Analysis |Network Theorems|Circuit Theoremsii|Laplace Transformation And Transient Analysis|Graph Theory |Twoport Network|Analysis Of Ac Circuits|Active Filters |Ac Singlephase Circuits|Threephase Circuits|Spice

Network Analysis and Synthesis

Topics in Communication Theory

CIRCUIT THEORY

(including Transmission Lines)

Radar Systems and Radio Aids to Navigation

This Book Has Been Designed As A Basic Text For Undergraduate Students Of Electrical, Electronics And Communication And Computer Engineering. In A Systematic And Friendly Manner, The Book Explains Not Only The Fundamental Concepts Like Circuit Elements, Kirchhoff S Laws, Network Equations And Resonance, But Also The Relatively Advanced Topics Like State Variable Analysis, Modern Filters, Active Rc Filters And Sensitivity Considerations. Salient Features * Basic Circuit Elements, Time And Periodic Signals And Different Types Of Systems Defined And Explained. * Network Reduction Techniques And Source Transformation Discussed. * Network Theorems Explained Using Typical Examples. * Solution Of Networks Using Graph Theory Discussed. * Analysis Of First Order, Second Order Circuits And A Perfect Transform Using Differential Equations Discussed. * Theory And Application Of Fourier And Laplace Transforms Discussed In Detail. * Interconnections Of Two-Port Networks And Their Performance In Terms Of Their Poles And Zeros Emphasised. * Both Foster And Cauer Forms Of Realisation Explained In Network Synthesis. * Classical And Modern Filter Theory Explained. * Z-Transform For Discrete Systems Explained. * Analogous Systems And Spice Discussed. * Numerous Solved Examples And Practice Problems For A Thorough Graph Of The Subject. * A Huge Question Bank Of Multiple Choice Questions With Answers Exhaustively Covering The Topics Discussed. With All These Features, The Book Would Be Extremely Useful Not Only For Undergraduate Engineering Students But Also For Amie And Gate Candidates And Practising Engineers. This book is designed to meet a felt need for a concise but systematic and rigorous presentation of Circuit Theory which forms the core of electrical engineering. The book is presented in four parts : Fundamental concepts in electrical engineering, Linear-time invariant systems, Advanced topics in network analysis, and Elements of network synthesis. A variety of illustrative examples, solved problems and exercises carefully guide the student from basic of electricity to the heart of circuit theory, which is supported by the mathematical tools of transforms. The inclusion of a chapter on P Spice and MATLAB is sure to whet the interest of the reader for further exploration of the subject-especially the advanced topics. Intended primarily as a textbook for the undergraduate students of electrical, electronics, and computer science engineering, this book would also be useful for postgraduate students and professionals for reference and revision of fundamentals. The book should also serve as a source book for candidates preparing for examinations conducted by professional bodies like IE, IETE, IEEE.

Implementing Domain-driven Design

Electronic Communication Systems

FEC 105 Basic Electrical and Electronics Engineering

A Modern Systems Theory Approach

Network Analysis (As Per Latest Jntu Syllabus)

Vaughn Vernon presents concrete and realistic domain-driven design (DDD) techniques through examples from familiar domains, such as a Scrum-based project management application that integrates with a collaboration suite and security provider. Each principle is backed up by realistic Java examples, and all content is tied together by a single case study of a company charged with delivering a set of advanced software systems with DDD.

RF CMOS Power Amplifiers: Theory Design and Implementation focuses on the design procedure and the testing issues of CMOS RF power amplifiers. This is the first monograph addressing RF CMOS power amplifier design for emerging wireless standards. The focus on power amplifiers for short is distance wireless personal and local area networks (PAN and LAN), however the design techniques are also applicable to emerging wide area networks (WAN) infrastructure using micro or pico cell networks. The book discusses CMOS power amplifier design principles and theory and describes the architectures and tradeoffs in designing linear and nonlinear power amplifiers. It then details design examples of RF CMOS power amplifiers for short distance wireless applications (e, g., Bluetooth, WLAN) including designs for multi-standard platforms. Design aspects of RF circuits in deep submicron CMOS are also discussed. RF CMOS Power Amplifiers: Theory Design and Implementation serves as a reference for RF IC design engineers and RD and R&D managers in industry, and for graduate students conducting research in wireless semiconductor IC design in general and with CMOS technology in particular.

Basic Electrical and Electronics Engineering

Circuit Theory and Networks

Introduction to Machining Science

Electronic Devices & Circuits

Objective Electrical Engineering By GK Mithal