

Network Analysis By Ganesh Rao

This book gathers a collection of papers by international experts presented at the International Conference on NextGen Electronic Technologies (ICNETS2-2016). ICNETS2 encompasses six symposia covering all aspects of the electronics and communications domains, including relevant nano/micro materials and devices. Highlighting the latest research on Optical And Microwave Technologies, the book will benefit all researchers, professionals, and students working in the core areas of electronics and their applications, especially in signal processing, embedded systems, and networking.

The study of social networks is a new but fast widening multidisciplinary area involving social, mathematical, statistical and computer sciences for application in diverse social environments; in the latter sciences, and specially for the field of Economics. It has its own parameters and methodological tools. In 'Models for Social Networks with Statistical Applications', the authors show how graph-theoretic and statistical techniques can be used to study some important parameters of global social networks and illustrate their use in social science studies with some examples in real life survey data.

Fourth International Conference on Information and Communication Technology for Competitive Strategies targets state-of-the-art as well as emerging topics pertaining to information and communication technologies (ICTs) and effective strategies for its implementation for engineering and intelligent applications.

This book comprises selected peer-reviewed papers from the International Conference on VLSI, Signal Processing, Power Systems, Illumination and Lighting Control, Communication

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and Embedded Systems (VSPICE-2019). The contents are divided into five broad topics - VLSI and embedded systems, signal processing, power systems, illumination and control, and communication and networking. The book focuses on the latest innovations, trends, and challenges encountered in the different areas of electronics and communication, and electrical engineering. It also offers potential solutions and provides an insight into various emerging areas such as image fusion, bio-sensors, and underwater sensor networks. This book can prove to be useful for academics and professionals interested in the various sub-fields of electronics and communication engineering.

The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 – 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

Test Prep for Circuit and Network Theory—GATE, PSUS AND ES Examination

Various measures of information are discussed in first chapter. Information rate, entropy and mark off models are presented. Second and third chapter deals with source coding. Shannon's encoding algorithm, discrete communication channels, mutual information, Shannon's first theorem are also presented. Huffman coding and Shannon-Fano coding is also discussed. Continuous channels are

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discussed in fourth chapter. Channel coding theorem and channel capacity theorems are also presented. Block codes are discussed in chapter fifth, sixth and seventh. Linear block codes, Hamming codes, syndrome decoding is presented in detail. Structure and properties of cyclic codes, encoding and syndrome decoding for cyclic codes is also discussed. Additional cyclic codes such as RS codes, Golay codes, burst error correction is also discussed. Last chapter presents convolutional codes. Time domain, transform domain approach, code tree, code trellis, state diagram, Viterbi decoding is discussed in detail.

Tempo is a modern treatment of decision-making that weaves together concepts and principles from the mathematical decision sciences, cognitive psychology, philosophy and theories of narrative and metaphor. Drawing on examples from familiar domains such as the kitchen and the office, the author, Venkatesh Rao, illustrates the subtleties underlying everyday behavior, and explains how you can strengthen the foundations of your decision-making skills."TEMPO is one of the most insightful and original books on decision-making I've ever read..." -- Daniel H. Pink, author of DRIVE and A WHOLE NEW MIND"An uncannily accurate analysis of our choice-making behaviors" -- David Allen, author of GETTING THINGS DONE"Tempo is a highly original and engaging book...In a world where timing is increasingly central to success, this is an essential read, not just for executives, but for everyone."-- John Hagel, co-author of THE POWER OF PULL

Handbook of Robust Low-Rank and Sparse Matrix Decomposition: Applications in Image and Video Processing shows you how robust subspace learning

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and tracking by decomposition into low-rank and sparse matrices provide a suitable framework for computer vision applications. Incorporating both existing and new ideas, the book conveniently gives you one-stop access to a number of different decompositions, algorithms, implementations, and benchmarking techniques. Divided into five parts, the book begins with an overall introduction to robust principal component analysis (PCA) via decomposition into low-rank and sparse matrices. The second part addresses robust matrix factorization/completion problems while the third part focuses on robust online subspace estimation, learning, and tracking. Covering applications in image and video processing, the fourth part discusses image analysis, image denoising, motion saliency detection, video coding, key frame extraction, and hyperspectral video processing. The final part presents resources and applications in background/foreground separation for video surveillance. With contributions from leading teams around the world, this handbook provides a complete overview of the concepts, theories, algorithms, and applications related to robust low-rank and sparse matrix decompositions. It is designed for researchers, developers, and graduate students in computer vision, image and video processing, real-time architecture, machine learning, and data mining.

This book allows students to learn fundamental concepts in linear circuit analysis using a well-developed methodology that has been carefully refined through classroom use. Applying his many years of teaching experience, the author focuses the reader's attention on

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basic circuit concepts and modern analysis methods. The text includes detailed coverage of basics of different terminologies used in electric circuits, mesh and node equations, network analysis and network theorems, signals and its properties, graph theory and its application in circuit analysis, analogous systems, Fourier and Laplace transforms and their applications in circuit theory. Wide coverage of evolution integral, two-port networks, passive and active filters, state variable formulation of network problems and network synthesis have been made. Transient response and frequency domain analysis of network systems has also been discussed. The hall-mark feature of this text is that it helps the reader to gain a sound understanding on the basics of circuit theory. CONTENTS: Basic Circuit Elements and Waveforms Signals and Systems Mesh and Node Analysis Fourier Series Laplace Transform Applications of Laplace Transform Analogous Systems Graph Theory and Network Equation Network Theorems Resonance Attenuators Two-port Network Passive Filters Active Filter Fundamentals State Variable Analysis Network Functions Network Synthesis Feedback System Frequency Response Plots Discrete Systems.

SCIENCE AND EMPIRES: FROM THE INTERNATIONAL COLLOQUIUM TO THE BOOK
Patrick PETITJEAN, Catherine JAMI and Anne Marie MOULIN The International Colloquium "Science and Empires - Historical Studies about Scientific Development and European Expansion" is the product of an International Colloquium, "Sciences and Empires - A

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Comparative History of Scientific Exchanges: European Expansion and Scientific Development in Asian, African, American and Oceanian Countries". Organized by the REHSEIS group (Research on Epistemology and History of Exact Sciences and Scientific Institutions) of CNRS (National Center for Scientific Research), the colloquium was held from 3 to 6 April 1990 in the UNESCO building in Paris. This colloquium was an idea of Professor Roshdi Rashed who initiated this field of studies in France some years ago, and proposed "Sciences and Empires" as one of the main research programmes for the The project to organize such a colloquium was a bit REHSEIS group. of a gamble. Its subject, reflected in the title "Sciences and Empires", is not a currently-accepted sub-discipline of the history of science; rather, it refers to a set of questions which found autonomy only recently. The terminology was strongly debated by the participants and, as is frequently suggested in this book, awaits fuller clarification.

This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

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This book covers cutting-edge and advanced research on data processing techniques and applications for Cyber-Physical Systems. Gathering the proceedings of the International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems (DPTA 2019), held in Shanghai, China on November 15–16, 2019, it examines a wide range of topics, including: distributed processing for sensor data in CPS networks; approximate reasoning and pattern recognition for CPS networks; data platforms for efficient integration with CPS networks; and data security and privacy in CPS networks. Outlining promising future research directions, the book offers a valuable resource for students, researchers and professionals alike, while also providing a useful reference guide for newcomers to the field.

In the world of mathematics and computer science, technological advancements are constantly being researched and applied to ongoing issues. Setbacks in social networking, engineering, and automation are themes that affect everyday life, and researchers have been looking for new techniques in which to solve these challenges. Graph theory is a widely studied topic that is now being applied to real-life problems. The Handbook of Research on Advanced Applications of Graph Theory in Modern Society is an essential reference source that discusses recent developments on graph theory, as well as its representation in social networks, artificial neural networks, and many complex networks. The book aims to study results that are useful in the fields of robotics and machine learning and will examine different

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engineering issues that are closely related to fuzzy graph theory. Featuring research on topics such as artificial neural systems and robotics, this book is ideally designed for mathematicians, research scholars, practitioners, professionals, engineers, and students seeking an innovative overview of graphic theory.

This text examines applications and covers statics with an emphasis on the dynamics of engineering electromagnetics. This edition features a new chapter on electromagnetic principles for photonics, and sections on cylindrical metallic waveguides and losses in waveguides and resonators.

The book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It contains original research works presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2018), organised by GVP College of Engineering (A), Andhra Pradesh, India. The respective papers were written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes from all over the world, and share the latest breakthroughs in and promising solutions to the most important issues facing today's society.

Which kinds of companies will thrive and which will get crushed by the powerful forces in the global business landscape now at work? This

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groundbreaking new guide will help you adapt and change your business to thrive among digital giants, including Google, Facebook, and Amazon. Drawing on considerable original research and case studies from Wang's acclaimed firm, Constellation Research, this groundbreaking guide reveals which kinds of companies will thrive and which will get crushed by the powerful forces now at work. Ultimately, you will understand how the business world is changing in the face of extreme competition and, most importantly, you will learn how to adapt now to stay relevant and in demand. Everybody Wants to Rule the World will help you: Understand the power of Data-Driven Digital Networks and how they have driven the most successful companies of our time. Learn how extreme consolidation is changing the global business landscape and what this means for businesses of all types and sizes in terms of understanding where you fit in the value chain. Gain insights into what innovative companies are doing right now to position themselves in this new reality. Take your business from status quo to market leader.

This book is a quantitative text, which focuses on the real issues behind serious modeling and analysis of communications networks. The author covers all the necessary mathematics and theory in order for students to understand the tools that optimize computer networks today. Covers both classical (e.g.

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queueing theory) and modern (e.g. pricing) aspects of networking Integrates material on communication networks with material on modeling/analyzing and designing such networks Includes a Solution Manual This issue of Neurosurgery Clinics focus on Intraoperative Imaging. Article topics will include historical, current and future intraoperative imaging modality; iMRI suites: history, design, utility and cost-effectiveness; Stereotactic platforms for iMRI; iMRI for tumor: maximizing extent of resection of glioma; IMRI for tumor: combining iMRI with functional MRI; iMRI for tumor: pituitary adenoma; iMRI for tumor: MR thermometry; iMRI for tumor: LITT for spinal tumors; iMRI for functional/epilepsy neurosurgery: DBS placement; iMRI for functional/epilepsy neurosurgery: MR thermometry for mesial temporal epilepsy; iMRI for functional/epilepsy neurosurgery: MR thermometry HIFU; Fluorescence imaging/agents in tumor resection; Intraoperative 3D ultrasound; Intraoperative 3D CT: spine surgery; Intraoperative 3D CT: cranial/functional/trigem; Intraoperative imaging for vascular lesions; Imaging of intraoperative drug delivery; Intraoperative ultrasound for peripheral nerve; and Intraoperative Raman Spectroscopy.

This book presents the latest research in the fields of computational intelligence, ubiquitous computing models, communication intelligence, communication security, machine learning, informatics, mobile

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computing, cloud computing and big data analytics. The best selected papers, presented at the International Conference on Innovative Data Communication Technologies and Application (ICIDCA 2020), are included in the book. The book focuses on the theory, design, analysis, implementation and applications of distributed systems and networks.

Tensors for Data Processing: Theory, Methods and Applications presents both classical and state-of-the-art methods on tensor computation for data processing, covering computation theories, processing methods, computing and engineering applications, with an emphasis on techniques for data processing. This reference is ideal for students, researchers and industry developers who want to understand and use tensor-based data processing theories and methods. As a higher-order generalization of a matrix, tensor-based processing can avoid multi-linear data structure loss that occurs in classical matrix-based data processing methods. This move from matrix to tensors is beneficial for many diverse application areas, including signal processing, computer science, acoustics, neuroscience, communication, medical engineering, seismology, psychometric, chemometrics, biometric, quantum physics and quantum chemistry. Provides a complete reference on classical and state-of-the-art tensor-based methods for data processing Includes

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a wide range of applications from different disciplines
Gives guidance for their application

The book provides a comprehensive study of the subject covering basic as well as advanced concepts. Informal and simple in discussion, the text is designed without diluting the subject. Questions from leading university papers are solved supporting with necessary derivations. Features Conceptual explanation with problem solving approach. New and Revised Reinforcement problems. Completely Revised chapters on Network topology and Resonance. Easy New Techniques for conversion of two port parameters. Contents Circuit concepts and network simplification techniques Network topology Circuit Theorems Initial conditions in networks Laplace transforms Resonance Two port networks Towards Smart World: Homes to Cities Using Internet of Things provides an overview of basic concepts from the rising of machines and communication to IoT for making cities smart, real-time applications domains, related technologies, and their possible solutions for handling relevant challenges. This book highlights the utilization of IoT for making cities smart and its underlying technologies in real-time application areas such as emergency departments, intelligent traffic systems, indoor and outdoor securities, automotive industries, environmental monitoring, business entrepreneurship, facial recognition, and motion-

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based object detection. Features The book covers the challenging issues related to sensors, detection, and tracking of moving objects, and solutions to handle relevant challenges. It contains the most recent research analysis in the domain of communications, signal processing, and computing sciences for facilitating smart homes, buildings, environmental conditions, and cities. It presents the readers with practical approaches and future direction for using IoT in smart cities and discusses how it deals with human dynamics, the ecosystem, and social objects and their relation. It describes the latest technological advances in IoT and visual surveillance with their implementations. This book is an ideal resource for IT professionals, researchers, undergraduate or postgraduate students, practitioners, and technology developers who are interested in gaining deeper knowledge and implementing IoT for smart cities, real-time applications areas, and technologies, and a possible set of solutions to handle relevant challenges. Dr. Lavanya Sharma is an Assistant Professor in the Amity Institute of Information Technology at Amity University UP, Noida, India. She has been a recipient of several prestigious awards during her academic career. She is an active nationally recognized researcher who has published numerous papers in her field.

This book is a text on Signals and Systems, at the

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Second year degree level. The purpose of writing this book was to provide the reader with a precise practical up-to-date exposition of Signals and Systems. Accordingly this book contains a wealth of material that trains a student to face the challenges posed by growing trends in communication, controls, signal processing and other allied areas. Features Reflects our passion towards teaching by explaining tough abstract concepts in a very convincing manner without compromising the concepts. Consistency is an essential requirement of conviction. Hence, care is taken to make the subject matter more consistent in respect of various symbols and their implications. Problems are graded to meet the needs of University examination as well as qualifying examinations like GATE, IES.... etc. Contents Fundamentals Linear Time - Invariant Systems Fourier Analysis and its Applications The Z-transform.

The vision of this book is to engage readers in a debate on how we see HR as a function and profession here and now, how we see the practice and the practitioner. The intent is to reflect on what we are seeing, hearing and experiencing about the function in an inclusive fashion. This book offers a practitioner's take to human resources management as a profession and function keeping in mind the most current and contemporary practices, problems and perspectives in India. The book is meant for young professionals, students and practitioners in

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the field of HRM. The book truly reflects HRM as it is practiced today with stories of places (organizational case studies) where it is at its best. Shorn of all theory, this book raises and answers questions such as given the rapid advancement in the profession, should the term HR be redefined? Why does the quality of the function depend so much on the way it is positioned within the organisation? What shapes a CEO's attitude towards HR? What are the big demands on HR today and in times to come? How does one advance in HR? Written by practitioners with first-hand HR experience, HR Here and Now is a thought-provoking book set firmly in the Indian context.

This book is a collection of best selected research papers presented at International Conference on Intelligent and Smart Computing in Data Analytics (ISCD A 2020), held at K L University, Guntur, Andhra Pradesh, India. The primary focus is to address issues and developments in advanced computing, intelligent models and applications, smart technologies and applications. It includes topics such as artificial intelligence and machine learning, pattern recognition and analysis, computational intelligence, signal and image processing, bioinformatics, ubiquitous computing, genetic fuzzy systems, hybrid evolutionary algorithms, nature-inspired smart hybrid systems, Internet of things, industrial IoT, health informatics, human-computer

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interaction and social network analysis. The book presents innovative work by leading academics, researchers and experts from industry. .

This book focuses on the emerging advances in distributed communication systems, big data, intelligent computing and Internet of Things, presenting state-of-the-art research in frameworks, algorithms, methodologies, techniques and applications associated with data engineering and wireless distributed communication technologies. In addition, it discusses potential topics like performance analysis, wireless communication networks, data security and privacy, human computer interaction, 5G Networks, and smart automated systems, which will provide insights for the evolving data communication technologies. In a nutshell, this proceedings book compiles novel and high-quality research that offers innovative solutions for communications in IoT networks.

One of 2021's Most Highly Anticipated New Books—Newsweek One of The 20 Leadership Books to Read in 2020—Adam Grant One of The Best New Wellness Books Hitting Shelves in January 2021—Shape.com A Top Business Book for January 2021—Financial Times A Next Big Idea Club Nominee Social Chemistry will utterly transform the way you think about “networking.” Understanding the contours of your social network can dramatically enhance personal relationships, work life, and even

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your global impact. Are you an Expansionist, a Broker, or a Convener? The answer matters more than you think. . . . Yale professor Marissa King shows how anyone can build more meaningful and productive relationships based on insights from neuroscience, psychology, and network analytics. Conventional wisdom says it's the size of your network that matters, but social science research has proven there is more to it. King explains that the quality and structure of our relationships has the greatest impact on our personal and professional lives. As she shows, there are three basic types of networks, so readers can see the role they are already playing: Expansionist, Broker, or Convener. This network decoder enables readers to own their network style and modify it for better alignment with their life plans and values. High-quality connections in your social network strongly predict cognitive functioning, emotional resilience, and satisfaction at work. A well-structured network is likely to boost the quality of your ideas, as well as your pay. Beyond the office, social connections are the lifeblood of our health and happiness. The compiled results from dozens of previous studies found that our social relationships have an effect on our likelihood of dying prematurely—equivalent to obesity or smoking. Rich stories of Expansionists like Vernon Jordan, Brokers like Yo-Yo Ma, and Conveners like Anna Wintour, as well as personal experiences from King's

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own world of connections, inform this warm, engaging, revelatory investigation into some of the most consequential decisions we can make about the trajectory of our lives.

Of all the different areas in computational chemistry, density functional theory (DFT) enjoys the most rapid development. Even at the level of the local density approximation (LDA), which is computationally less demanding, DFT can usually provide better answers than Hartree-Fock formalism for large systems such as clusters and solids. For atoms and molecules, the results from DFT often rival those obtained by ab initio quantum chemistry, partly because larger basis sets can be used. Such encouraging results have in turn stimulated workers to further investigate the formal theory as well as the computational methodology of DFT. This Part II expands on the methodology and applications of DFT. Some of the chapters report on the latest developments (since the publication of Part I in 1995), while others extend the applications to wider range of molecules and their environments. Together, this and other recent review volumes on DFT show that DFT provides an efficient and accurate alternative to traditional quantum chemical methods. Such demonstration should hopefully stimulate fruitful developments in formal theory, better exchange-correlation functionals, and linear scaling methodology.

This book presents selected papers from the 2021

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International Conference on Electrical and Electronics Engineering (ICEEE 2020), held on January 2, 2021. The book focuses on the current developments in various fields of electrical and electronics engineering, such as power generation, transmission and distribution; renewable energy sources and technologies; power electronics and applications; robotics; artificial intelligence and IoT; control, automation and instrumentation; electronics devices, circuits and systems; wireless and optical communication; RF and microwaves; VLSI; and signal processing. The book is a valuable resource for academics and industry professionals alike.

This book features original papers from International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February 18-19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the expert systems, sustainable clouds, and artificial intelligence technologies.

In cyber-physical systems (CPS), sensors and embedded systems are networked together to monitor and manage a range of physical processes through a continuous feedback system. This allows

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distributed computing using wireless devices. *Cyber-Physical Systems—A Computational Perspective* examines various developments of CPS that are impacting our daily lives and sets the stage for future directions in this domain. The book is divided into six sections. The first section covers the physical infrastructure required for CPS, including sensor networks and embedded systems. The second section addresses energy issues in CPS with the use of supercapacitors and reliability assessment. In the third section, the contributors describe the modeling of CPS as a network of robots and explore issues regarding the design of CPS. The fourth section focuses on the impact of ubiquitous computing and cloud computing in CPS and the fifth section discusses security and privacy issues in CPS. The final section covers the role of CPS in big data analytics, social network analysis, and healthcare. As CPS are becoming more complex, pervasive, personalized, and dependable, they are moving beyond niche laboratories to real-life application areas, such as robotics, smart grids, green computing, and healthcare. This book provides you with a guide to current CPS research and development that will contribute to a "smarter" planet.

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