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Network analysis - M.E. van VALKENBURG 1974

Everybody Wants to Rule the World - R "Ray" Wang 2021-07-13
Which kinds of companies will thrive and which will get crushed by the powerful forces in the global business landscape now at work? This 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.

Models for Social Networks With Statistical Applications - Suraj Bandyopadhyay 2011
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.

Network Theory - Venkatesh K. Channa 2010-09

Power Control in Wireless Cellular Networks - Mung Chiang 2008
Transmit power in wireless cellular networks is a key degree of freedom in the management of interference, energy, and connectivity. Power control in both the uplink and downlink of a cellular network has been extensively studied, especially over the last 15 years, and some of the results have enabled the continuous evolution and significant impact of the digital cellular technology. This survey provides a comprehensive discussion of the models, algorithms, analysis, and methodologies in this vast and growing literature. It starts with a taxonomy of the wide range of power control problem formulations, and progresses from the basic formulation to more sophisticated ones. When transmit power is the only set of optimization variables, algorithms for fixed SIR are presented first, before turning to their robust versions and joint SIR and power optimization. This is followed by opportunistic and non-cooperative power control. Then joint control of power together with beamforming pattern, base station assignment, spectrum allocation, and transmit schedule is surveyed one-by-one. Throughout the survey, we highlight the use of mathematical language and tools in the study of power control, including optimization theory, control theory, game theory, and linear algebra. Practical implementations of some of the algorithms in operational networks are discussed in the concluding section. As illustrated by the open problems presented at the end of most chapters, in the area of power control in cellular networks, there are still many under-explored directions and unresolved issues that remain theoretically challenging and practically important.

Social Network Mining, Analysis, and Research Trends: Techniques and Applications - Ting, I-Hsien 2011-12-31
"This book covers current research trends in the area of social networks analysis and mining, sharing research from experts in the social network analysis and mining communities, as well as practitioners from social science, business, and computer science"--Provided by publisher.

Handbook of Research on Advanced Applications of Graph Theory in Modern Society - Pal, Madhumangal 2019-08-30
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 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.

Spike-timing dependent plasticity - Henry Markram
Hebb's postulate provided a crucial framework to understand synaptic alterations underlying learning and memory. Hebb's theory proposed that neurons that fire together, also wire together, which provided the logical framework for the strengthening of synapses. Weakening of synapses was however addressed by "not being strengthened", and it was only later that the active decrease of synaptic strength was introduced through the discovery of long-term depression caused by low frequency stimulation of the presynaptic neuron. In 1994, it was found that the precise relative timing of pre and postynaptic spikes determined not only the magnitude, but also the direction of synaptic alterations when two neurons are active together. Neurons that fire together may therefore not necessarily wire together if the precise timing of the spikes involved are not tighly correlated. In the subsequent 15 years, Spike Timing Dependent Plasticity (STDP) has been found in multiple brain brain regions and in many different species. The size and shape of the time windows in which positive and negative changes can be made vary for different brain regions, but the core principle of spike timing dependent changes remain. A large number of theoretical studies have also been conducted during this period that explore the computational function of this driving principle and STDP algorithms have become the main learning algorithm when modeling neural networks. This Research Topic will bring together all the key experimental and theoretical research on STDP.

Encyclopedia of Information Science and Technology - Mehdi Khosrow-Pour 2009
"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

The Case for Marriage - Linda Waite 2002-03-05
A groundbreaking look at marriage, one of the most basic and universal of all human institutions, which reveals the emotional, physical, economic, and sexual benefits that marriage brings to individuals and society as a whole. The Case for Marriage is a critically important intervention in the national debate about the future of family. Based on the authoritative research of family sociologist Linda J. Waite, journalist Maggie Gallagher, and a number of other scholars, this book's findings dramatically contradict the anti-marriage myths that have become the common sense of most Americans. Today a broad consensus holds that marriage is a bad deal for women, that divorce is better for children when parents are unhappy, and that marriage is essentially a private choice, not a public institution. Waite and Gallagher flatly contradict

these assumptions, arguing instead that by a broad range of indices, marriage is actually better for you than being single or divorced–physically, materially, and spiritually. They contend that married people live longer, have better health, earn more money, accumulate more wealth, feel more fulfillment in their lives, enjoy more satisfying sexual relationships, and have happier and more successful children than those who remain single, cohabit, or get divorced. The Case for Marriage combines clearheaded analysis, penetrating cultural criticism, and practical advice for strengthening the institution of marriage, and provides clear, essential guidelines for reestablishing marriage as the foundation for a healthy and happy society. "A compelling defense of a sacred union. The Case for Marriage is well written and well argued, empirically rigorous and learned, practical and commonsensical." -- William J. Bennett, author of The Book of Virtues "Makes the absolutely critical point that marriage has been misrepresented and misunderstood." -- The Wall Street Journal www.broadwaybooks.com

Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences - Mayank Dave 2021-02-19
This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1–3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences, intertwined with each other for efficiency.

Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions - Francesco Silvestri 2019-07-19
Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions contains invited, keynote and theme lectures and regular papers presented at the 7th International Conference on Earthquake Geotechnical Engineering (Rome, Italy, 17-20 June 2019). The contributions deal with recent developments and advancements as well as case histories, field monitoring, experimental characterization, physical and analytical modelling, and applications related to the variety of environmental phenomena induced by earthquakes in soils and their effects on engineered systems interacting with them. The book is divided in the sections below: Invited papers Keynote papers Theme lectures Special Session on Large Scale Testing Special Session on Liquefact Projects Special Session on Lessons learned from recent earthquakes Special Session on the Central Italy earthquake Regular papers Earthquake Geotechnical Engineering for Protection and Development of Environment and Constructions provides a significant up-to-date collection of recent experiences and developments, and aims at engineers, geologists and seismologists, consultants, public and private contractors, local national and international authorities, and to all those involved in research and practice related to Earthquake Geotechnical Engineering.

Microelectronics, Electromagnetics and Telecommunications - P. Satish Rama Chowdary 2020-06-24
This book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It includes original research presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2019), organized by the Department of ECE, Raghu Institute of Technology, Andhra Pradesh, India. Written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes around the globe, the papers share the latest breakthroughs in and promising solutions to the most important issues facing today's society.

Advances in Computing and Data Sciences - Mayank Singh 2017-07-19
This book constitutes the refereed proceedings of the First International Conference on Advances in Computing and Data Sciences, ICACDS 2016, held in Ghaziabad, India, in November 2016. The 64 full papers were carefully reviewed and selected from 502 submissions. The papers are organized in topical sections on Advanced Computing; Communications; Informatics; Internet of Things; Data Sciences.

It Takes a Village: The Expanding Multi-Disciplinary Approach to Brain Metastasis - Peter Fecci 2022-11-22

An Introduction to Applied Multivariate Analysis with R - Brian Everitt 2011-04-23
The majority of data sets collected by researchers in all disciplines are multivariate, meaning that several measurements, observations, or recordings are taken on each of the units in the data set. These units might be human subjects, archaeological artifacts, countries, or a vast variety of other things. In a few cases, it may be sensible to isolate each variable and study it separately, but in most instances all the variables need to be examined simultaneously in order to fully grasp the structure and key features of the data. For this purpose, one or another method of multivariate analysis might be helpful, and it is with such methods that this book is largely concerned. Multivariate analysis includes methods both for describing and exploring such data and for making formal inferences about them. The aim of all the techniques is, in general sense, to display or extract the signal in the data in the presence of noise and to find out what the data show us in the midst of their apparent chaos. An Introduction to Applied Multivariate Analysis with R explores the correct application of these methods so as to extract as much information as possible from the data at hand, particularly as some type of graphical representation, via the R software. Throughout the book, the authors give many examples of R code used to apply the multivariate techniques to multivariate data.

Electronic Circuit Analysis - B. Visvesvara Rao 2012

Advances in Communication Systems and Networks - J. Jayakumari 2020-06-13
This book presents the selected peer-reviewed papers from the International Conference on Communication Systems and Networks (ComNet) 2019. Highlighting the latest findings, ideas, developments and applications in all areas of advanced communication systems and networking, it covers a variety of topics, including next-generation wireless technologies such as 5G, new hardware platforms, antenna design, applications of artificial intelligence (AI), signal processing and optimization techniques. Given its scope, this book can be useful for beginners, researchers and professionals working in wireless communication and networks, and other allied fields.

Poor Economics - Abhijit Banerjee 2012-03-27
The winners of the Nobel Prize in Economics upend the most common assumptions about how economics works in this gripping and disruptive portrait of how poor people actually live. Why do the poor borrow to save? Why do they miss out on free life-saving immunizations, but pay for unnecessary drugs? In Poor Economics, Abhijit V. Banerjee and Esther Duflo, two award-winning MIT professors, answer these questions based on years of field research from around the world. Called "marvelous, rewarding" by the Wall Street Journal, the book offers a radical rethinking of the economics of poverty and an intimate view of life on 99 cents a day. Poor Economics shows that creating a world without poverty begins with understanding the daily decisions facing the poor.

Network Analysis - D Ganesh Rao 2006-01-01

Networks and Systems - D. Roy Choudhury 2009-07-01
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 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.

Circuit Theory and Networks - Bagchi Surajit 2010
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

Engineering Electromagnetics- A Simplified Approach - Dr. D Ganesh Rao C K Narayanappa 2007-01-01
This text is intended for use as an introduction to electromagnetic principles and engineering applications for electrical engineers. The increasing frequencies of analog systems as well as the increasing speeds of digital systems require the designers have a fundamental understanding of the basic electromagnetic principles and laws that are covered in this text. An important guiding principle throughout the preparation of the manuscript of the text was that the course it is intended to be used for will likely be the last course in electromagnetics that the majority of electrical engineering students will take. Due to the vector nature of EM fields, vector algebra is an essential tool for gaining a quantitative understanding of EM concepts and their applications; hence chapter 1 is dedicated for learning the basic operations on vectors and their associated implications. Features Avoids lengthy derivations of theorems, particularly those involving extensive use of vector calculus. Emphasis is on clarity without sacrificing rigor and completeness. Every concept is fortified with detailed examples and abundant illustrations. Each chapter is concluded with a variety of exercise problems with answers to allow the students to test their understanding of the material covered in each chapter. Provides a solid grasp of electromagnetic fundamentals by emphasizing physical understanding supported by a lot of graded worked out examples. Chapter summary for a quick review before tests and examinations. Clearly marked sections and subsections make the text clearer and are not intimidating to the reader. Contents Vector Analysis Electrostatics Steady Magnetic Fields Magnetic Forces, Materials and Inductance Time-Varying Electromagnetic Fields The Uniform Plane Wave

Circuit and Network Theory—GATE, PSUS AND ES Examination - Satish K Karna
Test Prep for Circuit and Network Theory—GATE, PSUS AND ES Examination

ICT for Competitive Strategies - Durgesh Kumar Mishra 2020-05-05
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.

Digital Signal Processing - Rao D. Ganesh 2010-09

Elements of Engineering Electromagnetics - Nannapaneni Narayana Rao 1994
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.

Digital Nations – Smart Cities, Innovation, and Sustainability - Arpan Kumar Kar 2017-11-03
This book constitutes the refereed conference proceedings of the 16th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2017, held in Delhi, India, in November 2017. The 45 revised full papers presented were carefully reviewed and selected from 92 submissions. They are organized in the following topical sections: Adoption of Smart Services; Assessment of ICT Enabled Smart Initiatives; Analytics for Smart Governance; Social Media and Web 3.0 for Smartness; and Smart Solutions for the Future.

Field Theory - D. Ganesh Rao C.K. Narayanappa 2008-01-01
Designed as an introductory text for electromagnetic principles, it covers basic concepts and laws that are required for analog as well as digital system designers. The subject is covered by looking the fact that this will be probably the last course concentrating specially on Electromagnetics by the majority of students under electrical sciences. Features Emphasis on clarity without diluting the rigor of the subject. Additional reinforcement problems. Revised chapters and new articles. Exercise problems with answers. Chapter summary for a quick reference. Contents Vector Analysis Electrostatics Steady magnetic fields Magnetic forces, material and inductance Time-varying Electromagnetic field Uniform plane wave

Proceeding of the International Conference on Computer Networks, Big Data and IoT (ICCBI - 2018) - A.Pasumpon Pandian 2019-07-31
This book presents the proceedings of the International Conference on Computer Networks, Big Data and IoT (ICCBI-2018), held on December 19–20, 2018 in Madurai, India. In recent years, advances in information and communication technologies [ICT] have collectively aimed to streamline the evolution of internet applications. In this context, increasing the ubiquity of emerging internet applications with an enhanced capability to communicate in a distributed environment has become a major need for existing networking models and applications. To achieve this, Internet of Things [IoT] models have been developed to facilitate a smart interconnection and information exchange among modern objects – which plays an essential role in every aspect of our lives. Due to their pervasive nature, computer networks and IoT can easily connect and engage effectively with their network users. This vast network continuously generates data from heterogeneous devices, creating a need to utilize big data, which provides new and unprecedented opportunities to process these huge volumes of data. This International Conference on Computer Networks, Big Data, and Internet of Things [ICCBI] brings together state-of-the-art research work, which briefly describes advanced IoT applications in the era of big data. As such, it offers valuable insights for researchers and scientists involved in developing next-generation, big-data-driven IoT applications to address the real-world challenges in building a smartly connected environment.

Network Theory - D. Ganesh Rao K. Channa Venkatesh 2008-01-01
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

NETWORK ANALYSIS AND SYNTHESIS - KUMAR, A. ANAND 2019-01-01
This comprehensive test on Network Analysis and Synthesis is designed for undergraduate students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Electronics and Instrumentation Engineering, Electronics and Computer Engineering and Biomedical Engineering. The book will also be useful to AMIE and IETE students. Written with student-centered, pedagogically driven approach, the text provides a self-centered introduction to the theory of network analysis and synthesis. Striking a balance between theory and practice, it covers topics ranging from circuit elements and Kirchhoff's laws, network theorems, loop and node analysis of dc and ac circuits, resonance, transients, coupled circuits, three-phase circuits, graph theory, Fourier and Laplace analysis, Filters, attenuators and equalizers to network synthesis. All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way. KEY FEATURES ⬜ Numerous worked-out examples in each chapter. ⬜ Short questions with answers help students to prepare for examinations. ⬜ Objective type questions, Fill in the blanks, Review questions and Unsolved problems at the end of each chapter to test the level of understanding of the subject. ⬜ Additional examples are available at:
www.phindia.com/anand_kumar_network_analysis

Advances in Signal Processing and Intelligent Recognition Systems - Sabu M. Thampi 2021-02-06
This book constitutes the refereed proceedings of the 6th International Symposium on Advances in Signal Processing and Intelligent Recognition Systems, SIRS 2020, held in Chennai, India, in October 2020. Due to the COVID-19 pandemic the conference was held online. The 22 revised full papers and 5 revised short papers presented were carefully reviewed and selected from 50 submissions. The papers cover wide research fields including information retrieval, human-computer interaction (HCI), information extraction, speech recognition.

Surgical Neuro-Oncology - Russell R. Lonser 2018-11-09
Part of the Neurosurgery by Example series, this volume on surgical neuro-oncology presents exemplary cases in which renowned authors guide readers through the assessment and planning, decision making, surgical procedure, after care, and complication management of common and uncommon disorders. The cases explore a number of different types of nervous systems tumors, including glioblastoma, medulloblastoma, skull tumors, and more. Each chapter also contains 'pivot points' that illuminate changes required to manage patients in alternate or atypical situations, and pearls for accurate diagnosis, successful treatment, and effective complication management. Containing a focused review of medical evidence and expected outcomes, Surgical Neuro-Oncology is appropriate for neurosurgeons who wish to learn more about this subspecialty, and those preparing for the American Board of Neurological Surgery oral examination.

Sentiment Analysis for Social Media - Carlos A. Iglesias 2020-04-02
Sentiment analysis is a branch of natural language processing concerned with the study of the intensity of the emotions expressed in a piece of text. The automated analysis of the multitude of messages delivered through social media is one of the hottest research fields, both in academy and in industry, due to its extremely high potential applicability in many different domains. This Special Issue describes both technological contributions to the field, mostly based on deep learning techniques, and specific applications in areas like health insurance, gender classification, recommender systems, and cyber aggression detection.

Sixth International Conference on Intelligent Computing and Applications - Subhransu Sekhar Dash 2021-07-27
This book presents the peer-reviewed proceedings of the Sixth International Conference on Intelligent Computing and Applications (ICICA 2020), held at Government College of Engineering, Keonjhar, Odisha, India, during December 22–24, 2020. The book includes the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.

International Conference on Computer Networks and Communication Technologies - S. Smys 2019
The book features research papers presented at the International Conference on Computer Networks and Inventive Communication Technologies (ICCNCT 2018), offering significant contributions from researchers and practitioners in academia and industry. The topics covered include computer networks, network protocols and wireless networks, data communication technologies, and network security. Covering the main core and specialized issues in the areas of next-generation wireless network design, control, and management, as well as in the areas of protection, assurance, and trust in information security practices, these proceedings are a valuable resource, for researchers, instructors, students, scientists, engineers, managers, and industry practitioners. .

Formal Methods - Marieke Huisman 2021
This book constitutes the refereed proceedings of the 24th Symposium on Formal Methods, FM 2021, held virtually in November 2021. The 43 full papers presented together with 4 invited presentations were carefully reviewed and selected from 131 submissions. The papers are organized in topical sections named: Invited Presentations. - Interactive Theorem Proving, Neural Networks & Active Learning, Logics & Theory, Program Verification I, Hybrid Systems, Program Verification II, Automata, Analysis of Complex Systems, Probabilities, Industry Track Invited Papers, Industry Track, Divide et Impera: Efficient Synthesis of Cyber-Physical System.

Optical And Microwave Technologies - Gnanam Gnanagurunathan 2017-11-25
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.

International Conference on Intelligent and Smart Computing in Data Analytics - Siddhartha Bhattacharyya 2021-03-12
This book is a collection of best selected research papers presented at International Conference on Intelligent and Smart Computing in Data Analytics (ISCDA 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 interaction and social network analysis. The book presents innovative work by leading academics, researchers and experts from industry.