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this introductory textbook on network analysis and synthesis provides a comprehensive coverage of the important topics in electrical circuit

analysis the full spectrum of electrical circuit topics such as kirchoff s laws mesh analysis nodal analysis rlc circuits and resonance to network theorems and applications laplace transforms network synthesis and realizability and filters and attenuators are discussed with the aid of a large number of worked out examples and practice exercises

intended as a textbook for electronic circuit analysis or a reference for practicing engineers the book uses a self study format with hundreds of worked examples to master difficult mathematical topics and circuit design issues computer programs using pspice and matlab on the accompanying cd rom provide calculations and executables for visualizing and solving applications from industry it covers the complex mathematical topics and concepts needed to understand and solve serious circuits problems

this book presents general methods of circuit and network analysis by employing differential and integral calculus and transform methods with a strong emphasis on application chapter topics cover basic circuit laws circuit analysis methods capacitive and inductive transients and equivalent circuits initial final and first order circuits laplace transforms circuit analysis with laplace transforms transfer functions sinusoidal steady state analysis frequency response analysis and bode plots waveform analysis and fourier analysis for learners of advanced circuit analysis network analysis and linear systems

this volume constitutes the proceedings of the 16th jsai international symposia on artificial intelligence jsai isai held in hamamatsu japan in may 2024 the 21 full papers presented in this proceedings volume were carefully reviewed and selected from 63 submissions the papers are organized in the following topical sections ai biz 2024 bias 2024 jurisin 2024 and scidoca 2024

part of the mcgraw hill core concepts in electrical engineering series circuits and networks analysis and synthesis is designed as a textbook for an introductory circuits course at the intermediate undergraduate level the book may also be appealing to a non major survey course in electrical engineering course as well a primary goal in circuits and networks is to establish a firm understanding of the basic laws of electrical circuits and to provide students with a working knowledge of the commonly used methods of analysis in electrical engineering the text assumes no mathematical knowledge making it easy for students to immediately jump into circuit analysis in addition all of the must

have s for a circuits text such as an extensive introduction to pspice are present in this book about the core concepts in electrical engineering series as advances in networking and communications bring the global academic community even closer together it is essential that textbooks recognize and respond to this shift it is in this spirit that we will publish textbooks in the mcgraw hill core concepts in electrical engineering series the series will offer textbooks for the global electrical engineering curriculum that are reasonably priced innovative dynamic and will cover fundamental subject areas studied by electrical and computer engineering students written with a global perspective and presenting the latest in technological advances these books will give students of all backgrounds a solid foundation in key engineering subjects

active network analysis gives a comprehensive treatment of the fundamentals of the theory of active networks and its applications to feedback amplifiers the guiding light throughout has been to extract the essence of the theory and to discuss those topics that are of fundamental importance and that will transcend the advent of new devices and design tools the book provides under one cover a unified comprehensive and up to date coverage of these recent developments and their practical engineering applications in selecting the level of presentation considerable attention has been given to the fact that many readers may be encountering some of these topics for the first time thus basic introductory material has been included the work is illustrated by a large number of carefully chosen and well prepared examples

fuzzy systems and data mining are indispensable aspects of the digital technology on which we now all depend fuzzy logic is intrinsic to applications in the electrical chemical and engineering industries and also in the fields of management and environmental issues data mining is indispensable in dealing with big data massive data and scalable parallel and distributed algorithms this book presents the proceedings of fsdm 2023 the 9th international conference on fuzzy systems and data mining held from 10 13 november 2023 as a hybrid event with some participants attending in chongqing china and others online the conference focuses on four main areas fuzzy theory algorithms and systems fuzzy application data mining and the interdisciplinary field of fuzzy logic and data mining and provides a forum for experts researchers academics and representatives from industry to share the latest advances in the field of fuzzy sets and data mining this year topics from two special sessions on granular ball computing and the application of generative ai as well as machine learning and neural networks were

also covered a total of 363 submissions were received and after careful review by the members of the international program committee 110 papers were accepted for presentation at the conference and publication here representing an acceptance rate of just over 30 covering a comprehensive range of current research and developments in fuzzy logic and data mining the book will be of interest to all those working in the field of data science

in the era of digital economy with highly connected world the ability to comprehend social network computing has become an indispensable skill this book serves as a vital guide for academics and professionals engaged in research within this rapidly expanding field the book is organized into three parts each dedicated to different facets of social network computing the journey commences with an exploration of foundational principles encompassing triadic closure strong and weak ties network homophily and positive and negative balance this lays the groundwork for an in depth examination of fundamental theories governing social networks subsequently the focus shifts to the laws dictating social networks elucidating phenomena like the small world effect power law distribution community detection diffusion processes game theory dynamics and hypernetworks also including multiplex networks multi mode networks and temporal networks the final section of the book centers on the practical aspects of social network analysis delving into topics such as link prediction influence evaluation dynamic analysis random experiments modeling and simulation and representation learning this provides a comprehensive exploration of the applicability of social network analysis in real world scenarios this book seamlessly integrates theory with practice by incorporating popular social network computing software including igraph gephi ucinet and netlogo by mastering the computational thinking methods presented in this book readers will deepen their understanding of social network computing and acquire the skills to effectively apply it in various real world contexts

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linear network theory presents the problems of linear network analysis and synthesis this book discusses the theory of linear electrical circuits which is important for developing the scientific outlook of specialists in radio and electrical engineering organized into 13 chapters this book begins with an overview of circuit theory that operates with electrical quantities including voltage charge and current this text then examines sinusoidal function as the predominant form of a periodic process in electrical circuits other chapters consider the reduction of a series parallel network to single equivalent impedance which is one of the main forms of converting circuit diagrams often used in practice the final chapter deals with the laplace transformation or operational calculus which is a combination of methods of mathematical analysis

this book is intended to be suitable for students in the specialized branches of electrical and radio engineering post graduates and engineers extending their theoretical knowledge

a guide to more than 3500 application programs in basic from over 200 collections the book lists the contents of specific collections and indexes programs by key word and by subject the software programs listed are intended to solve specific problems or simulate experiments

the power of networks describes a typology of network based research practices in the historical disciplines ranging from the use of quantitative network analysis in cultural economic social or political history or religious studies to novel approaches in the digital humanities network data visualisations and calculations have proven to be useful tools for the analysis of mostly textual sources containing relational information offering new perspectives on complex historical phenomena including case studies from antiquity to contemporary history the book provides a clear demonstration of the opportunities historical network research hnr provides for historical studies the examples presented within the pages of this volume are arranged in a way to highlight three central typological pillars of hnr re construction and analysis of historical networks computational extraction of network data and infrastructures for data collection and exploration the power of networks outlines the history and current state of research in hnr and points towards future research frontiers in the wake of new digital technologies as such the book should be essential reading for academics students and practitioners with an interest in digital humanities history archaeology and religion

the ultimate guide into the mystical world of client server computing and its explosion of technology the book covers network operating systems sql database servers image and multimedia servers transaction monitors distributed objects and workflow servers also covered are the tools used to create applications and manage them in distributed environments

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