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This major work is dedicated specifically to the applications of social network analysis in diverse fields of scholarship. Divided into four volumes, each of which opens with a contextualising introduction written by the editor, this collection aims to provide scholars from a wide range of disciplines with a comprehensive, touchstone resource on the topic.

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Social Network Analysis: Methods and Applications reviews and discusses methods for the analysis of social networks with a focus on applications of these methods to many substantive examples. It is a reference book that can be used by those who want a comprehensive review of network methods, or by researchers who have gathered network data and want to find the most appropriate method by which ...

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"In the growing literature on social networks, Social Network Analysis: Methods and

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Examples stands out for the authors' ability to introduce readers to key network theoretical concepts, methodology, and applications in a variety of fields in a very accessible and clear fashion." -- Renato Corbetta "An excellent introduction to the emerging field of social networks, providing the foundation ...

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Network analysis of protein interaction data. Centralities – As we will see later, there are different flavours of centrality, each representing different concepts. Centrality can be measured for nodes and for edges and gives an estimation on how important that node/edge is for the connectivity or the information flow of the network.

~~Graph theory: network topology | Network analysis of ...~~

The #1 title in its market, Electrical Engineering: Principles and Applications helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process.

A Unique Feature Of The Book Is That The First Two Chapters Provide A Mini-Course

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In Basic Resistive Circuit Analysis For The Purpose Of Strengthening The Reader S Background. It Is An In-Depth Study Of The Basic Circuit Theorems And Network Analysis Methods, With The Treatment Limited To Those Concepts Essential For Advanced Study. A Reader Without A Formal Electrical Background Could Conceivably Acquire A Sufficient Background From These Chapters To Deal With The Remainder Of The Book.

Covers methods for the analysis of social networks and applies them to examples.

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.

Consider the problems involving following: A highway connecting two cities is to be constructed such that it interconnects and benefits a given number of towns between the two cities. Given the distances between the towns and the cities, the interconnection of the villages and the cities by the highway is to be such that the

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overall distance covered is minimised. The preparation of lunch on every Wednesday by students living together involve the tasks preparation of the stove (PS), cooking of 'papa' (CP), cooking of stew (CS), dishing and taking lunch (TL) and washing of dishes (WD). They have determined that tasks CP and PS cannot start until task PS is complete while task TL can only start when tasks CP and CS are complete. Given the time duration of the tasks, they would like to schedule the tasks in such a way that the overall time taken in preparing and taking their lunch is minimised. The solutions to such problems and more (referred to as network optimisation problems) are found through Network Analysis techniques discussed in this fourth book of the Operations Research series. The approach to the development of the subject matter in the book focuses on the epistemological advancement of knowledge in Network Analysis; emphasising data-based Operations Research modelling rather than the mathematical-graph-theory approach to network optimisation models. There are three distinct features in the approach used in the book different from a number of textbooks on Network Analysis. First the epistemological formation of Network Analysis as a sub-discipline of Operations Research has been explicitly introduced and emphasised throughout the book. Second a clear distinction is made between for example a network (as a mathematical-graph-theory tool in network optimisation models) and the network optimisation problem represented by the network. Third emphasis has been made in differentiating the network optimisation models from the various network optimisation problems solved through the respective models; underscoring data

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and decision making as the underpinnings of the application of the models in solving the optimisation problems. The style of writing has been deliberately designed to make the book lecture Network Analysis to the reader and in such a way that the reader enjoys the knowledge and its applications without fear of numbers, mathematical formulae and figures. After all, Network Analysis techniques deal with facts and not with just numbers and formulae nor figures! The main topics covered are as follows:

- 1: FOUNDATION CONCEPTS IN NETWORK ANALYSIS
- 1.1: EPISTEMOLOGICAL FORMATION OF NETWORK OPTIMISATION
- 1.2: NETWORKS AND THEIR CHARACTERISTICS
- 1.3: NEOPAMETS AND NETWORK OPTIMISATION PROBLEMS
- 1.4: EXERCISES
- 2: PROJECT-MANAGEMENT OPTIMISATION FRAMEWORKS I
- 2.1: ACTIVITIES, EVENTS AND PROJECTS
- 2.2: CRITICAL PATH ANALYSIS (CPA) FRAMEWORKS
- 2.3: LINEAR PROGRAMMING MODELS FOR PROJECTS
- 2.4: EXERCISES
- 3: PROJECT MANAGEMENT OPTIMISATION FRAMEWORKS II
- 3.1: ACTIVITY COSTS AND PROJECT CRASHING
- 3.2: PROJECT EVALUATION AND REVIEW TECHNIQUES (PERT) FRAMEWORKS
- 3.3: LINEAR PROGRAMMING MODELS FOR PROJECT CRASHING
- 3.4: EXERCISES
- 4: OPTIMAL-INTERCONNECTIONS OPTIMISATION FRAMEWORKS
- 4.1: SHORTEST-ROUTE OPTIMISATION FRAMEWORKS
- 4.2: MINIMUM-SPANNING-TREE OPTIMISATION FRAMEWORKS
- 4.3: EXERCISES
- 5: MAXIMUM-FLOW OPTIMISATION FRAMEWORKS
- 5.1: ACTIVITY OUTLETS AND SHIPMENT CAPACITIES
- 5.2: MAXIMUM-FLOW NETWORKS
- 5.3: MAXIMUM-FLOW SOLUTION ALGORITHM
- 5.4: LINEAR PROGRAMMING MODELS FOR MAXIMUM-FLOW OPTIMISATION PROBLEMS
- 5.5:

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EXERCISES

This new title in the well-established "Quantitative Network Biology" series includes innovative and existing methods for analyzing network data in such areas as network biology and chemoinformatics. With its easy-to-follow introduction to the theoretical background and application-oriented chapters, the book demonstrates that R is a powerful language for statistically analyzing networks and for solving such large-scale phenomena as network sampling and bootstrapping. Written by editors and authors with an excellent track record in the field, this is the ultimate reference for R in Network Analysis.

This book offers researchers an understanding of the fundamental issues and a good starting point to work on this rapidly expanding field. It provides a comprehensive survey of current developments of heterogeneous information network. It also presents the newest research in applications of heterogeneous information networks to similarity search, ranking, clustering, recommendation. This information will help researchers to understand how to analyze networked data with heterogeneous information networks. Common data mining tasks are explored, including similarity search, ranking, and recommendation. The book illustrates some prototypes which analyze networked data. Professionals and academics working in data analytics, networks, machine learning, and data mining will find this content valuable. It is also suitable for advanced-level students in

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computer science who are interested in networking or pattern recognition.

This text combines technical and engineering mathematical concepts at a basic level using MATLAB® for support and analysis. Once math concepts are introduced and understood using conventional techniques, MATLAB® is then used as the primary tool for performing mathematical analysis. Featuring practical technical examples and problems, the text is designed for math courses within an engineering technology or engineering program or any courses where MATLAB is used as a supporting tool. The text provides a review of differential and integral calculus with an emphasis on applications to technical problems.

Practical Matlab Applications for Engineers provides a tutorial for those with a basic understanding of Matlab®. It can be used to follow Misza Kalechman's, Practical Matlab Basics for Engineers (cat no. 47744). This volume explores the concepts and Matlab tools used in the solution of advanced course work for engineering and technology students. It covers the material encountered in the typical engineering and technology programs at most colleges. It illustrates the direct connection between theory and real applications. Each chapter reviews basic concepts and then explores those concepts with a number of worked out examples.

Part of the What is..? series, this book is an introductory guide providing explanations of the nature of social network methods.

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SNA techniques are derived from sociological and social-psychological theories and take into account the whole network (or, in case of very large networks such as Twitter -- a large segment of the network). Thus, we may arrive at results that may seem counter-intuitive -- e.g. that Justin Bieber (7.5 mil. followers) and Lady Gaga (7.2 mil. followers) have relatively little actual influence despite their celebrity status -- while a middle-of-the-road blogger with 30K followers is able to generate tweets that "go viral" and result in millions of impressions. O'Reilly's "Mining Social Media" and "Programming Collective Intelligence" books are an excellent start for people interested in SNA. This book builds on these books' foundations to teach a new, pragmatic, way of doing SNA. I would like to write a book that links theory ("why is this important?", "how do various concepts interact?", "how do I interpret quantitative results?") and practice -- gathering, analyzing and visualizing data using Python and other open-source tools.

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