

Book Reviews

Distribution Management—Mathematical Modelling and Practical Analysis—Samuel Eilon, C. D. T. Watson-Gandy, and Nicos Christofilides (London: Griffin, 1971, 240 pp.). *Reviewed by Richard de Neufville, Institute of Transportation and Traffic Engineering, University of California, Berkeley, Calif. 94720.*

Despite the extensive advances that have been made over the last twenty years in network analysis, our ability to design optimal networks in practical situations is often extremely limited. For some problems, in particular for transportation and logistics, this capability has, in fact, been almost nonexistent. To be sure, our accumulated experience in transport planning does enable us to avoid the most ineffective kinds of networks. However, this is quite different from knowing what kinds of networks are truly optimal.

For many modes of transport, we do not even know which of significantly different networks are better. In air transport, for example, a major argument is now taking place in Europe over whether a more connected or (as in the United States) a less connected network is to be preferred, and a similar debate is also taking place in the United States over whether the connectivity of the operational network on the railroads ought to be changed by the introduction of more through trains. Finally, there is continuous disagreement among those interested in urban goods movement about whether consolidation or similar warehouses are desirable. Curiously enough, these discussions are generally carried on without the benefit of any analysis, let alone of the kind of mathematical network analyses that have been so successfully perfected.

The book by Eilon, Watson-Gandy, and Christofilides is a significant contribution in this context. At last we have a reference that clearly describes and contrasts the different kinds of approaches that are available, that assesses their relative usefulness for practical problems, and that provides some clues as to what kinds of solutions are desirable. As a further advantage, the exposition is clear, and the book is easy to read.

The authors write with authority, justly due to their extensive academic and practical experience. They are all on the faculty at Imperial College in London, the premier technical center in the United Kingdom, and have been teaching distribution and logistics for many years. In addition, their work there has been combined with extensive consulting work so that they have been able to develop a direct sense of what kinds of problems arise in practice and what analytic approaches are most useful.

The first half of the book focuses on the depot location problem. It features an extensive review of the literature (much along the same lines as that published as a short article by ReVelle, Liebman, and Marks), coupled with a critical review of the relative modeling and computational advantages of the competitive approaches. This is illustrated through a case study of an actual large-scale problem.

The second half covers the associated problems of vehicle scheduling, loading, and the determination of fleet size. The nature of the presentation is similar to that of the first half. The major difference is that the state of the art in these areas does not allow such definitive statements as for depot location. Thus, while the treatment is inherently somewhat inconclusive, it appears to be the best that I have yet encountered for practical problems.

In general, the text is an excellent introduction to practical analysis of networks for logistics and distribution management. Supplemented by descriptions of recent interesting advances, such as those of David Marks' group on garbage collection or of Nigel Wilson *et al.* on consolidation terminals for urban goods movements (all available through the M.I.T. Civil Engineering Systems Laboratory, Cambridge, Mass. 02139), this text is a good basis for a course in distribution. It also provides a first-rate reference for operations researchers practicing in this area. The book is highly recommended for both purposes.

It is unfortunate that this worthwhile work is unfamiliar to the U.S. public. This is possibly due to the fact that the U.K. publisher is relatively unknown in North America. If this is the case, one would

hope that he, along with other publishers of good texts, would co-venture their work with transatlantic distributors so as to facilitate the dissemination of such works.

Reguleringsteknikk (Control Engineering), vols. 1 and 2—Jens G. Balchen, vol. 3—Jens G. Balchen, Magne Fjeld, and Ole A. Solheim (Trondheim, Norway: Tapir, 1973, 1971, 1970; 274 pp., 231 pp., 392 pp.). *Reviewed by Odd Pettersen, Department of Electrical Engineering, Technical University, Trondheim, Norway; Visiting Professor, Department of Electrical and Computer Engineering, University of Wisconsin, Madison, Wis. 53706.*

These three books cover different topics within the area of control engineering and may well be read separately. Together they constitute a complete set of courses on the undergraduate and partly graduate level. As such, they are used as main textbooks in courses at the Technical University of Norway, where the authors are professors and pioneers of automatic control, not only in theoretical aspects but also a wide range of areas of industrial application. The books are widely read and have gained a high reputation throughout Scandinavia, where the Norwegian language is easily understood. As a former student of Professor Balchen and a colleague of all three authors for several years, the reviewer is, perhaps, somewhat biased in favor of the books. On the other hand, he knows the books fairly well and has witnessed their effective use in teaching for many years.

Volume One was originally published in 1965, based upon earlier lecture notes. It was later revised and reprinted several times, its last edition being the sixth reprint. The two other volumes are newer, which is easily verified by noticing the notation and the use of "modern control theory" with emphasis on vector-matrix formulation. Particularly, this approach is adopted in Volume Three.

Volume One is organized into 12 chapters and covers the main parts of an elementary two-credit course. Because of its historical evolution through more than 15 years, Volume One is mainly concerned with the traditional approach to control theory, based upon the Laplace transform. The book is updated, however, and state space analysis has been included as a separate chapter at the end of the book.

Chapter 1 explains, in a very elementary and almost nonmathematical way, the nature and some important aspects and applications of automatic control and cybernetics, with examples from technical applications, biology, and other areas of man's activity and environment. Chapter 2 gives a mathematical basis for linear control systems, with basis in the Laplace transform. Chapters 3 and 4 start with an introduction to the concept of block diagrams, and show how to derive time responses with the help of the inverse Laplace transform. Furthermore, poles and zeros and their effects are explained, with a brief view of the root locus method. Chapters 5-7 deal with frequency analysis and stability; whereas Chapters 8 and 9 apply that theory in the synthesis of feedback control systems, with the mention of feed-forward for the elimination of certain kinds of noise.

Chapter 10 explains some aspects of mutually-coupled systems, with the Laplace-transform and transfer-function approach. Several examples of two-variable systems are explained in some detail. Chapter 11 deals with the limitations inherent in linear systems, and chapter 12 gives the basic theory of state space analysis. In an appendix, the inverse Laplace transform is derived, and another appendix gives some "cook book" methods for the practical application and construction of frequency diagrams. At the end of the book is included a bibliography, with some reference to chapters in the book.

Volume Two covers four distinct areas of control theory above the fundamental level: discrete control systems, nonlinear control systems, methods for statistical analysis, and experimental determination of system parameters. Chapter 1, covering discrete systems, gives an easily understood engineer-oriented mathematical description of the

Distribution Management Mathematical Modelling And Practical Analysis

H. A. Eiselt, Vladimir Marianov



Distribution Management Mathematical Modelling And Practical Analysis:

Distribution Management Samuel Eilon, Carl Donald Tyndale Watson-Gandy, Nicos Christofides, 1971 *Fundamentals of Supply Chain Theory* Lawrence V. Snyder, Zuo-Jun Max Shen, 2019-07-01

Comprehensively teaches the fundamentals of supply chain theory. This book presents the methodology and foundations of supply chain management and also demonstrates how recent developments build upon classic models. The authors focus on strategic tactical and operational aspects of supply chain management and cover a broad range of topics from forecasting inventory management and facility location to transportation process flexibility and auctions. Key mathematical models for optimizing the design operation and evaluation of supply chains are presented as well as models currently emerging from the research frontier. *Fundamentals of Supply Chain Theory* Second Edition contains new chapters on transportation traveling salesman and vehicle routing problems integrated supply chain models and applications of supply chain theory. New sections have also been added throughout on topics including machine learning models for forecasting conic optimization for facility location a multi supplier model for supply uncertainty and a game theoretic analysis of auctions. The second edition also contains case studies for each chapter that illustrate the real world implementation of the models presented. This edition also contains nearly 200 new homework problems over 60 new worked examples and over 140 new illustrative figures. Plentiful teaching supplements are available including an Instructor's Manual and PowerPoint slides as well as MATLAB programming assignments that require students to code algorithms in an effort to provide a deeper understanding of the material. Ideal as a textbook for upper undergraduate and graduate level courses in supply chain management in engineering and business schools. *Fundamentals of Supply Chain Theory* Second Edition will also appeal to anyone interested in quantitative approaches for studying supply chains.

Logistics Systems Analysis Carlos F. Daganzo, 2013-04-18 This book examines logistics systems in an integrated way. Its goal is to describe and show how to find rational structures for logistics systems considering all the relevant aspects. Building on an understanding of the simplest logistical system with only one origin and one destination, the book treats problems with many origins and one destination, many destinations and one origin, and many origins and many destinations. This is done for systems with and without transshipments. The solutions and methodologies presented in the book are particularly helpful in instances where detailed data are not available and when time is of the essence. **Foundations of Location Analysis** H. A. Eiselt, Vladimir Marianov, 2011-01-13

Location analysis has matured from an area of theoretical inquiry that was designed to explain observed phenomena to a vibrant field which can be and has been used to locate items as diverse as landfills, fast food outlets, gas stations, as well as politicians and products in issue and feature spaces. Modern location science is dealt with by a diverse group of researchers and practitioners in geography, economics, operations research, industrial engineering, and computer science. Given the tremendous advances location science has seen from its humble beginnings, it is time to look back. The contributions in this volume were written by eminent experts in the field, each surveying the original contributions.

that created the field and then providing an up to date review of the latest contributions Specific areas that are covered in this volume include The three main fields of inquiry minimax problems and covering models Nonstandard location models including those with competitive components models that locate undesirable facilities models with probabilistic features and problems that allow interactions between facilities Descriptions and detailed examinations of exact techniques including the famed Weiszfeld method and heuristic methods ranging from Lagrangean techniques to Greedy algorithms A look at the spheres of influence that the facilities generate and that attract customers to them a topic crucial in planning retail facilities The theory of central places which other than in mathematical games where location science was born

Simulated Evolution and Learning Grant Dick, Will N. Browne, Peter Whigham, Mengjie Zhang, Lam Thu Bui, Hisao Ishibuchi, Yaochu Jin, Xiaodong Li, Yuhui Shi, Pramod Singh, Kay Chen Tan, Ke Tang, 2014-11-11 This volume constitutes the proceedings of the 10th International Conference on Simulated Evolution and Learning SEAL 2012 held in Dunedin New Zealand in December 2014 The 42 full papers and 29 short papers presented were carefully reviewed and selected from 109 submissions The papers are organized in topical sections on evolutionary optimization evolutionary multi objective optimization evolutionary machine learning theoretical developments evolutionary feature reduction evolutionary scheduling and combinatorial optimization real world applications and evolutionary image analysis

New Frontiers in Urban Analysis Yasushi Asami, Yukio Sadahiro, Toru Ishikawa, 2009-06-26 Bringing together the world's leading experts in Urban Analysis this remarkable and critically acclaimed volume applies the theories and models of Atsuyuko Okabe Japan's preeminent spatial analyst to case studies in urban planning transport administration and public health in the context of the highly advanced Japanese planning system It inc

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Store Choice, Store Location and Market Analysis (Routledge Revivals) Neil Wrigley, 2014-10-14 This book first published in 1988 brings together leading researchers from both the retailing business and the academic world to discuss the latest techniques of analysis and forecasting in the fields of store choice store location and market analysis Its rationale is the major restructuring of the UK retailing industry which has taken place over the past twenty years and the profound implications of that restructuring for the type of research necessary to understand maintain and enhance corporate responsibility The contributors present accounts of the development of new and original methods for retail analysis and forecasting purposes They lay stress upon practical methods which are accurate and robust and which can operate with the type of data typically available to retailers The book will provide a major work of reference for retailers market researchers retail analysts estate managers urban planners and geographers in many countries

The Advanced Theory of Statistics: Design and analysis, and time-series Maurice George Kendall, Alan Stuart, 1976

Model Building in Mathematical Programming H. Paul Williams, 1999-10-25 Review of previous editions Such a text and this is the only one of this type I know of should be the basis of all instruction in Mathematical Programming Journal of the Royal Statistical Society An excellent introduction for

students of business administration and people who want to see the utility of operations research European Journal of Operational Research It will be appreciated very much by practitioners who already have knowledge in the field of mathematical programming Mathematical Programming Society Newsletter Model Building in Mathematical Programming Fourth Edition H Paul Williams Faculty of Mathematical Studies University of Southampton UK This extensively revised fourth edition of this well known and much praised book contains a great deal of new material In particular sections and new problems have been added covering Revenue Management Hydro Electric Generation Date Envelopment efficiency Analysis Milk Distribution and Collection and Constraint Programming The book discusses the general principles of model building in mathematical programming and shows how they can be applied by using simplified but practical problems from widely different contexts Suggested formulations and solutions are given in the latter part of the book together with computational experience to give the reader a feel for the computation difficulty of solving that particular type of model Aimed at undergraduates postgraduates research students and managers this book illustrates the scope and limitations of mathematical programming and shows how it can be applied to real situations By emphasizing the importance of the building and interpretation of models rather than the solution process the author attempts to fill a gap left by the many works which concentrate on the algorithmic side of the subject National Union Catalog ,1968 Includes entries for maps and atlases

Who's who in Western Europe ,1981 **The National union catalog, 1968-1972** ,1973 **Subject Catalog** Library of Congress,1970 Library of Congress Catalog Library of Congress,1972 Beginning with 1953 entries for Motion pictures and filmstrips Music and phonorecords form separate parts of the Library of Congress catalogue Entries for Maps and atlases were issued separately 1953 1955 **Energy conservation in industry** Albert S. Strub,1984 Working Paper Western Management Science Institute,1988 Global Positioning System Yehuda Bock,Norman Leppard,1990 **Location and Space in Social Administration** Bryan H. Massam,1975 *Congressus Numerantium* ,1970

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