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Cutting and Packing Problems - Mutsunori Yagiura 2017-02-06 This book presents practical algorithms for solving a wide variety of cutting and packing problems from the perspective of combinatorial optimization. Problems of cutting and packing objects in one-, two-, or three-dimensional space have been extensively studied for many years because of numerous real applications—for instance, in the clothing, logistics, manufacturing, and material industries. Cutting and packing problems can be classified in three ways according to their dimensions: The one-dimensional problem is the most basic category of problems including knapsack problems, bin packing problems, and cutting stock problems, among others. The two-dimensional problem is a category of geometric problems including rectangle

packing problems, circle packing problems, and polygon packing problems, among others. The three-dimensional problem is the most difficult category of problems and has applications in container loading, cargo and warehouse management and so forth. Most of these variants are NP-hard, since they contain as a special case the knapsack problem or the bin packing problem, which are already known to be NP-hard. Therefore, heuristics and metaheuristics are very important to design practical algorithms for these problems. We survey practical algorithms for solving a wide variety of cutting and packing problems in this book. Another feature of cutting and packing problems is the requirement to develop powerful geometric tools to handle the wide variety and complexity of shapes that need to be packed. We also survey geometric properties and tools for cutting and packing problems in the book.

2020 23rd International Microwave and Radar Conference (MIKON) - IEEE Staff 2020-10-05
Antenna Design, Modeling & Measurements Microwave Devices, Circuits & Components Millimeter wave & Terahertz Technology Microwave Photonics, Circuits & Systems RF, VHF & UHF Technology EM Field Theory & Numerical Techniques Microwave Measurements Industrial, Scientific and Medical Applications Wireless Technology & Applications, Electromagnetic Compatibility Space & Satellite Systems
Optimization by GRASP - Mauricio G.C. Resende 2016-10-26
This is the first book to cover GRASP (Greedy Randomized Adaptive Search Procedures), a metaheuristic that has enjoyed wide success in practice with a broad range of applications to real-world combinatorial optimization problems. The state-of-the-art coverage and carefully crafted pedagogical style lends this book highly accessible as an introductory text not only to GRASP, but also to combinatorial

optimization, greedy algorithms, local search, and path-relinking, as well as to heuristics and metaheuristics, in general. The focus is on algorithmic and computational aspects of applied optimization with GRASP with emphasis given to the end-user, providing sufficient information on the broad spectrum of advances in applied optimization with GRASP. For the more advanced reader, chapters on hybridization with path-relinking and parallel and continuous GRASP present these topics in a clear and concise fashion. Additionally, the book offers a very complete annotated bibliography of GRASP and combinatorial optimization. For the practitioner who needs to solve combinatorial optimization problems, the book provides a chapter with four case studies and implementable templates for all algorithms covered in the text. This book, with its excellent overview of GRASP, will appeal to researchers and practitioners of combinatorial optimization who have a need to find optimal or near optimal solutions to hard combinatorial optimization problems.

Heuristic Search - Saïd Salhi 2017-02-18
This book aims to provide a general overview of heuristic search, to present the basic steps of the most popular heuristics, and to stress their hidden difficulties as well as their opportunities. It provides a comprehensive understanding of Heuristic search, the applications of which are now widely used in a variety of industries including engineering, finance, sport, management and medicine. It intends to aid researchers and practitioners in solving complex combinatorial and global optimisation problems, and spark interest in this exciting decision science-based subject. It will provide the reader with challenging and lively methodologies through which they will be able to design and analyse their own techniques

Proposals That Work - Lawrence F. Locke 2014 Covering all aspects of the

proposal process, from the most basic questions about form and style to the task of seeking funding, 'Proposals That Work' offers clear advice backed up with examples.

Antennas and Wave Propagation - Pedro Pinho 2018-09-26
Antennas and radio propagation are continuously and rapidly evolving and new challenges arise every day. As a result of these rapid changes the need for up-to-date texts that address this growing field from an interdisciplinary perspective persists. This book, organized into nine chapters, presents new antenna designs and materials that will be used in the future, due to the trend for higher frequencies, as well as a bird's eye view of some aspects related to radio propagation channel modeling. The book covers the theory but also the practical aspects of technology implementation in a way that is suitable for undergraduate and graduate-level students, as well as researchers and professional engineers.

Channels, Propagation and Antennas for Mobile Communications - Rodney Vaughan 2003-02-03
This exceptional book introduces the reader to the principles, theory and applications of physical layer wireless/mobile communications, applicators and millimetric antennas.

Edexcel Award in Algebra Level 3 Workbook - 2013-04-01
This workbook is designed to build proficiency in algebra for students who want to progrss beyond algebra at Level 2, or achieve a GCSE Mathematics Grade A or A*, or move with confidence into AS Mathematics.