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**Heuristic Search** Apr 26 2022 This book aims to provide a general overview of heuristic search, to present the basic steps of 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, sports management and medicine. It intends to aid researchers and practitioners in solving complex combinatorial and global optimization 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

**Edexcel Award in Algebra Level 3 Workbook** Oct 02 2022 This workbook is designed to build proficiency in algebra for students who want to progress beyond algebra at Level 2, or achieve a GCSE Mathematics Grade A or A\*, or move with confidence into AS Mathematics.

**Proposals That Work** Aug 31 2022 Covering all aspects of the proposal process, from the most basic questions about form and content to the task of seeking funding, 'Proposals That Work' offers clear advice backed up with examples.

**Optimization by GRASP** May 28 2022 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 introduction 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 wealth of practical advice 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.

**Channels, Propagation and Antennas for Mobile Communications** Oct 02 2022 This exceptional book introduces the reader to the principles, theory and applications of physical layer wireless/mobile communications, applicators and millimetric antennas.

**Cutting and Packing Problems** Oct 01 2022 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 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 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. This book presents 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 are to be packed. We also survey geometric properties and tools for cutting and packing problems in the book.

**Antennas and Wave Propagation** Jun 28 2022 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.

**2020 23rd International Microwave and Radar Conference (MIKON)** 2022 Antenna Design, Modeling & Measurements Microwave Devices, Circuits & Components Millimeter wave & Terahertz Technology Microwave Photonics, Circuits & Systems VHF & UHF Technology EM Field Theory & Numerical Techniques Microwave Measurements Industrial, Scientific and Medical Applications Wireless Technology & Applications, Electromagnetic Compatibility Space & Satellite Systems

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