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Nature-Based Solutions for More Sustainable Cities Decision Support for Forest  
Management Advances in Design Automation, 1991 Principal Concepts in Applied  
Evolutionary Computation: Emerging Trends New Solutions for the Heart Solutions for  
Climate Change Challenges in the Built Environment Integer Programming and Related  
Areas Interesting Times Urban Heat Stress and Mitigation Solutions Innovations and  
Interdisciplinary Solutions for Underserved Areas Sustainable Solutions for Railways  
and Transportation Engineering Nature-Based Solutions to Climate Change Adaptation in  
Urban Areas Solutions to Problems in Heat Transfer. Transient Conduction Or Unsteady  
Conduction Chemical Process Design and Integration World Oilseeds More-for-Less  
Solutions in Fuzzy Transportation Problems Generalized Fractional Order Differential  
Equations Arising in Physical Models Integrated Processing Technologies for Food and  
Agricultural By-Products TOPSIS and its Extensions: A Distance-Based MCDM  
Approach Programming Languages and Systems WASTES – Solutions, Treatments and  
Opportunities II Business Applications and Computational Intelligence Engineering  
Solutions Toward Sustainable Development Environmental Contamination Solutions  
for Complex Heterogeneous Systems Problems and Solutions for Integer and Combinatorial  
Optimization 101 Problems and Solutions in Historical Linguistics Geoenvironmental  
Engineering





## Decision Support for Forest Management

1991

increasingly powerful and diverse computing technologies have the potential to tackle ever greater and more complex problems and dilemmas in engineering and science disciplines principal concepts in applied evolutionary computation emerging trends provides an introduction to the important interdisciplinary discipline of evolutionary computation an artificial intelligence field that combines the principles of computational intelligence with the mechanisms of the theory of evolution academics and practicing field professionals will find this reference useful as they break into the emerging and complex world of evolutionary computation learning to harness and utilize this exciting new interdisciplinary field

## Advances in Design Automation, 1991

2012-06-30

although cardiac surgery has made an enormous progress during the last decades the discipline has to cope with essential changes patients are increasingly cared for by cardiologists and therefore referred to the surgeon in a later stage of disease consequently they are more often in an increasingly serious state or in advanced age with significant comorbidities in order to meet the requirements of these different patient groups cardiosurgical treatments require special protectional strategies for the heart in order to perform the planned operations safely this book presents the latest knowledge of modern techniques of myocardial protection taking into consideration the different patient groups and current scientific strategies furthermore it discusses present and future scientific approaches in myocardial protection and preservation

## *Principal Concepts in Applied Evolutionary Computation: Emerging Trends*

2010-10-28

the multi disciplinary perspective provided here offers a strategic view on built environment issues and improve understanding of how built environment activities potentially induce global warming and climate change it also highlights solutions to these challenges solutions to climate change challenges in the built environment helps develop an appreciation of the diverse themes of the climate change debate across the built environment continuum a wide perspective is provided through contributions from physical environmental social economic and political scientists this strategic view on built environment issues will be useful to researchers as well as policy experts and construction practitioners wanting a holistic view this book clarifies complex issues around climate change and follows five main themes climate change experiences urban landscape development urban management issues measurement of impact and the future chapters are written by eminent specialists from both academic and professional backgrounds the main context for chapters is the developed world but the discussion is widened to incorporate regional issues the book will be valuable to researchers and students in all the built environment disciplines as well as to practitioners involved with the design construction and maintenance of buildings and government organisations developing and implementing climate change policy

## *New Solutions for the Heart*

2012-03-12

integer programming is one of the most fascinating and difficult areas in the field of mathematical optimization due to this fact notable research contributions to integer programming have been made in very different branches of mathematics and its applications since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field i initiated this compilation of literature in 1970 at the institut fur konometrie und operations research university of bonn since then many collaborators have contributed to and worked on it among them dipl math claus kastning has done the bulk of the work with great perseverance and diligence he has gathered all the material and checked it with the original sources the main aim was to incorporate rare and not easily accessible sources like russian journals

preprints or unpublished papers without the invaluable and dedicated engagement of claus kastning the bibliography would never have reached this final version for this reason he must be considered its responsible editor as with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete we have however tried to be as complete as possible the bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries

## ***Solutions for Climate Change Challenges in the Built Environment***

2013-11-11

the 2013 national book award winner a new york times bestseller throughout his career as a journalist george packer has always been attuned to the voices and stories of individuals caught up in the big ideas and events of contemporary history interesting times unites brilliant investigative pieces such as betrayed about iraqi interpreters with personal essays and detailed narratives of travels through war zones and failed states spanning a decade that includes the september 11 2001 attacks and the election of barack obama packer brings insight and passion to his accounts of the war on terror iraq political writers and the 2008 election across these varied subjects a few key themes recur the temptations and dangers of idealism the moral complexities of war and politics the american capacity for self blinding and self renewal whether exploring american policies in the wake of september 11 tracking a used t shirt from new york to uganda or describing the ambivalent response in appalachia to obama these essays hold a mirror up to our own troubled times and showcase packer s unmistakable perspective which is at once both wide angled and humane

## **Integer Programming and Related Areas**

2010-02-15

this book provides the reader with an understanding of the impact that different morphologies construction materials and green coverage solutions have on the urban microclimate thus affecting the comfort conditions of urban inhabitants and the energy needs of buildings in urban areas the book covers the latest approaches to energy and outdoor comfort measurement and modelling on an urban scale and describes possible measures and strategies to mitigate the effects of the mutual interaction between urban settlements and local microclimate despite its relevance only limited literature is currently devoted to appraising from an engineering perspective the intertwining relationships between urban geometry and fabrics energy fluxes between buildings and their surroundings outdoor microclimate conditions and building energy demands in urban areas this book fills this gap by first discussing the physical processes that govern heat and mass transfer at an urban scale while emphasizing the role played by different spatial arrangements manmade materials and green infrastructures on the outdoor microclimate the first chapters also address the implications of these factors on the outdoor comfort conditions experienced by pedestrians and on the buildings energy demand for space heating and cooling then based upon cutting edge experimental activities and simulation work this book demonstrates current and forthcoming adaptation and mitigation strategies to improve the urban microclimate and its impact on the built environment such as cool materials thermochromic and retroreflective finishing materials and green infrastructures applied either at a building scale or at the urban scale the effect of these solutions is demonstrated for different cities worldwide under a range of climate conditions finally the book opens a wider perspective by introducing the basic elements that allow fuel poverty raw materials consumption and the principles of circular economy in the definition of a resilient urban settlement

## **Interesting Times**

2021-09-08

this book constitutes the refereed post conference proceedings of the 5th eai international conference on innovations and interdisciplinary solutions for underserved areas intersol 2022 held in nile university of nigeria abuja nigeria in march 2022 the 26 papers presented were selected from 66 submissions and issue different problems in underserved and unserved areas they face problems in almost all sectors such as energy water communication climate change food education transportation social development and economic growth

## **Urban Heat Stress and Mitigation Solutions**

2023-01-31

this volume brings together scientific experts in different areas that contribute to the railway track and transportation engineering challenges evaluate the state of the art identify the shortcomings and opportunities for research and promote the interaction with the industry in particular scientific topics that are addressed in this volume include railway ballasted track degradation settlement problems and stabilization reinforcement technologies switches and crossings and related derailments causes train induced vibrations and mitigation measures operations management and performance of ground transportation and traffic congestion and safety procedures the volume is based on the best contributions to the 2nd geomeast international congress and exhibition on sustainable civil infrastructures egypt 2018 the official international congress of the soil structure interaction group in egypt ssgie

## **Innovations and Interdisciplinary Solutions for Underserved Areas**

2018-10-27

this open access book brings together research findings and experiences from science policy and practice to highlight and debate the importance of nature based solutions to climate change adaptation in urban areas emphasis is given to the potential of nature based approaches to create multiple benefits for society the expert contributions present recommendations for creating synergies between ongoing policy processes scientific programmes and practical implementation of climate change and nature conservation measures in global urban areas except where otherwise noted this book is licensed under a creative commons attribution 4.0 international license to view a copy of this license visit [creativecommons.org/licenses/by/4.0/](https://creativecommons.org/licenses/by/4.0/)

## ***Sustainable Solutions for Railways and Transportation Engineering***

2017-09-01

many heat transfer problems are time dependent such unsteady or transient problems typically arise when the boundary conditions of a system are changed for example if the surface temperature of a system is altered the temperature at each point in the system will also begin to change the changes will continue to occur until a steady state temperature distribution is reached consider a hot metal billet that is removed from a furnace and exposed to a cool air stream energy is transferred by convection and radiation from its surface to the surroundings energy transfer by conduction also occurs from the interior of the metal to the surface and the temperature at each point in the billet decreases until a steady state condition is reached the final properties of the metal will depend significantly on the time temperature history that results from heat transfer controlling the heat transfer is one key to fabricating new materials with enhanced properties the author's objective in this textbook is to develop procedures for determining the time dependence of the temperature distribution within a solid during a transient process as well as for determining heat transfer between the solid and its surroundings the nature of the procedure depends on assumptions that may be made for the process if for example temperature gradients within the solid may be neglected a comparatively simple approach termed the lumped capacitance method or negligible internal resistance theory may be used to determine the variation of temperature with time the entire book has been thoroughly revised and a large number of solved examples and additional unsolved problems have been added this book contains comprehensive treatment of the subject matter in simple and direct language the book comprises eight chapters all chapters are saturated with much needed text supported and by simple and self explanatory examples

## **Nature-Based Solutions to Climate Change Adaptation in Urban Areas**

2017-03

written by a highly regarded author with industrial and academic experience this new edition of an established bestselling book provides practical guidance for students



researchers and those in chemical engineering the book includes a new section on sustainable energy with sections on carbon capture and sequestration as a result of increasing environmental awareness and a companion website that includes problems worked solutions and excel spreadsheets to enable students to carry out complex calculations

## **Solutions to Problems in Heat Transfer. Transient Conduction Or Unsteady Conduction**

2001

discusses composition processing technologies and utilization of oilseeds including current developments in their processing into oil protein products and other byproducts major crops covered include soybean rapeseed sunflower peanut oil palm cotton coconut safflower sesame corn and rice minor oilseeds covered include niger olive mango kernel poppy cocoa beans shea hemp grape seed perilla and chinese vegetable tallow many unexploited sources of oil and many non edible oilseeds are also explored annotation copyrighted by book news inc portland or

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2016-08-02

this book describes a set of methods for finding more for less solutions of various kind of fuzzy transportation problems inspired by more for less approaches to the basic transportation problem initiated by abraham charnes and his collaborators during 1960s and 1970s this book describes new methods developed by the authors to solve different types of problems including symmetric balanced fuzzy transportation problems symmetric intuitionistic fuzzy transportation problems with mixed constraints and symmetric intuitionistic fuzzy linear fractional transportation problems with mixed constraints it offers extensive details on their applications to some representative problems and discusses some future research directions

## ***Chemical Process Design and Integration***

1992-02-29

this book analyzes the various semi analytical and analytical methods for finding approximate and exact solutions of fractional order partial differential equations it explores approximate and exact solutions obtained by various analytical methods for fractional order partial differential equations arising in physical models

## **World Oilseeds**

2023-06-13

feeding our globally expanding population is one of the most critical challenges of our time and improving food and agricultural production efficiencies is a key factor in solving this problem currently one third of food produced for humans is wasted and for every pound of food produced roughly an equal amount of nonfood by product is also generated creating a significant environmental impact in integrated processing technologies for food and agricultural by products experts from around the world present latest developments recognizing that while some by products have found use as animal feed or are combusted for energy new technologies which integrate conversion of production and processing by products into higher value food or nonfood products nutraceuticals chemicals and energy resources will be a critical part of the transition to a more sustainable food system organized by agricultural crop and focusing on those crops with maximum economic impact each chapter describes technologies for value added processing of by products which can be integrated into current food production systems integrated processing technologies for food and agricultural by products is a valuable resource for industry professionals academics and policy makers alike provides production through processing coverage of key agricultural crops for a thorough understanding and translational inspiration describes and discusses major by product sources including physical and chemical biomass characterizations and associated variability in detail highlights conversions accomplished through physical biological chemical or thermal methods and demonstrates examples of those technologies

## **More-for-Less Solutions in Fuzzy Transportation Problems**

2018-11-13

the objective of the book is to provide materials to demonstrate the development of topsis and to serve as a handbook it contains the basic process of topsis numerous variant processes property explanations theoretical developments and illustrative examples with real world cases possible readers would be graduate students researchers analysts and professionals who are interested in topsis a distance based algorithm and who would like to compare topsis with other mcdm methods the book serves as a research reference as well as a self learning book with step by step illustrations for the mcdm community

## ***Generalized Fractional Order Differential Equations Arising in Physical Models***

2019-07-13

this book constitutes the refereed proceedings of the 9th asian symposium on programming languages and systems aplas 2011 held in kenting taiwan in december 2011 the 22 revised full papers presented together with 4 invited talks and one system and tool presentations were carefully reviewed and selected from 64 submissions the papers are organized in topical sections on program analysis functional programming compiler concurrency semantics as well as certification and logic

## ***Integrated Processing Technologies for Food and Agricultural By-Products***

1993

wastes solutions treatments and opportunities ii contains selected papers presented at the 4th edition of the international conference wastes solutions treatments and opportunities that took place 25 26 september 2017 at the faculty of engineering of the university of porto porto portugal the wastes conference which takes place biennially is a prime forum for academics and industry representatives from the waste management and recycling sectors around the world to share their experience and knowledge with all in attendance the published papers focus on a wide range of topics including wastes as construction materials wastes as fuels waste treatment technologies msw management recycling of wastes and materials recovery wastes from new materials nanomaterials electronics composites etc environmental economic and social aspects in waste management and circular economy

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2022-09-07

this book deals with the computational intelligence field particularly business applications adopting computational intelligence techniques provided by publisher

## **TOPSIS and its Extensions: A Distance-Based MCDM Approach**

2011-11-18

this book constitutes the referred proceeding of the 1st international conference on engineering solutions toward sustainable development essd2023 organized by the faculty of engineering port said university and held in port said egypt during may 2 3 2023 the book is devoted to fulfill the need for sustainable development that has never been more urgent it shows the crucial role of engineering to play in this transition from consumption culture to responsible culture this book explores the relationship between engineering and sustainability highlighting the vital role that engineering plays in achieving sustainable development the book provides a comprehensive guide for engineers researchers and experts from different disciplines that are interested in sustainable development from renewable energy sources to green infrastructure the book delves into the latest technological advancements providing insights and practical strategies for designing and implementing sustainable solutions with practical examples and case studies readers will gain a deep understanding of how engineering principles and practices can be harnessed to develop sustainable solutions that balance economic





# Geoenvironmental Engineering

2005

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