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Patrick Siarry *Editors*

Applications of Metaheuristics in Process Engineering

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Applications of Metaheuristics in Process Engineering Jayaraman Valadi, Patrick Siarry, 2014-08-07 Metaheuristics exhibit desirable properties like simplicity easy parallelizability and ready applicability to different types of optimization problems such as real parameter optimization combinatorial optimization and mixed integer optimization They are thus beginning to play a key role in different industrially important process engineering applications among them the synthesis of heat and mass exchange equipment synthesis of distillation columns and static and dynamic optimization of chemical and bioreactors This book explains cutting edge research techniques in related computational intelligence domains and their applications in real world process engineering It will be of interest to industrial practitioners and research academics

Optimization of Process Flowsheets through Metaheuristic Techniques José María Ponce-Ortega, Luis Germán Hernández-Pérez, 2018-07-19 This textbook presents a general multi objective optimization framework for optimizing chemical processes by implementing a link between process simulators and metaheuristic techniques The proposed approach is general and shows how to implement links between different process simulators such as Aspen Plus HYSIS Super Pro Designer linked to a variety of metaheuristic techniques implemented in Matlab Excel C and others eliminating the numerical complications through the optimization process Furthermore the proposed framework allows the use of thermodynamic design and constitutive equations implemented in the process simulator to implement any process Aimed at graduate and undergraduate students it presents introductory chapters for process simulators and metaheuristic optimization techniques and provides several worked exercises as well as proposed exercises In addition accompanying tutorial videos clearly explaining the implemented methodologies are available online Also some Matlab routines are included as electronic supporting material

Metaheuristics: Outlines, MATLAB Codes and Examples Ali Kaveh, Taha Bakhshpoori, 2019-03-29 The book presents eight well known and often used algorithms besides nine newly developed algorithms by the first author and his students in a practical implementation framework Matlab codes and some benchmark structural optimization problems are provided The aim is to provide an efficient context for experienced researchers or readers not familiar with theory applications and computational developments of the considered metaheuristics The information will also be of interest to readers interested in application of metaheuristics for hard optimization comparing conceptually different metaheuristics and designing new metaheuristics

Tools For Chemical Product Design Mariano Martín Martín, Mario R. Eden, Nishanth G. Chemmangattuvalappil, 2016-09-19 Tools for Chemical Product Design From Consumer Products to Biomedicine describes the challenges involved in systematic product design across a variety of industries and provides a comprehensive overview of mathematical tools aimed at the design of chemical products from molecular design to customer products Chemical product design has become increasingly important over the past decade and includes a wide range of sectors including gasoline additives and blends in the petroleum industry active ingredients and excipients in the pharmaceutical industry and a variety

of consumer products and specialty chemicals Traditionally such products have been designed through trial and error methods which not only are time consuming but more importantly only provide limited knowledge that can be translated into next generation products Features an impressive collection of contributions from leading researchers in the field Presents the latest tools available across a variety of industries Describes the challenges involved in systematic product design as well as the latest methods for solving such problems Covers a wide range of sectors including gasoline additives and blends in the petroleum industry active ingredients and excipients in the pharmaceutical industry and a variety of consumer products and specialty chemicals

Optimum Choice of Energy System Configuration and Storages for a Proper Match between Energy Conversion and Demands

Andrea Lazzaretto,Andrea Toffolo,2020-01-31 This Special Issue addresses the general problem of a proper match between the demands of energy users and the units for energy conversion and storage by means of proper design and operation of the overall energy system configuration The focus is either on systems including single plants or groups of plants connected or not to one or more energy distribution networks In both cases the optimum design and operation involve decisions about thermodynamic processes about the type number design parameters of components plants and storage capacities and about mutual interconnections and the interconnections with the distribution grids The problem is absolutely general encompassing design and operation of energy systems for single houses groups of houses industries industrial districts municipal areas regions and countries The presented papers show that similar approaches can be used in different applications although a general standard has not been achieved yet

Handbook of Heuristics Rafael Martí,Panos M. Pardalos,Mauricio G.C. Resende,2025-11-17 The handbook of heuristics consists of five main parts search strategies local search metaheuristics analysis and implementations and applications They cover from search methods and methodological aspects such as matheuristics the exciting field in which mathematical programming is combined with heuristics to applications that provide the practitioner with a description of some relevant optimization issues in a number of specific application areas such as scheduling vehicle routing or network optimization The first edition of the Handbook of Heuristics was published in 2018 and contained 47 chapters In this second edition the authors revised 30 of them to include new developments in the area that appeared in the last few years In particular the reader may find 14 chapters in search strategies including a new chapter on deep learning 4 in local search 14 in metaheuristics 5 in analysis and implementations and 24 in applications The inclusion of 14 new chapters makes this second edition even more comprehensive totaling 61 chapters

Profit Maximization Techniques for Operating Chemical Plants Sandip K. Lahiri,2020-04-30 A systematic approach to profit optimization utilizing strategic solutions and methodologies for the chemical process industry In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry leaders are searching for new ways to deploy profit optimization strategies Profit Maximization Techniques For Operating Chemical Plants defines strategic planning and implementation techniques for managers senior executives and technical service

consultants to help increase profit margins The book provides in depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements there is a plethora of information to help keep plant operations on budget The book also includes information on Take away methods and techniques for identifying and exploiting potential areas to improve profit within the plant Focus on latest Artificial Intelligence based modeling knowledge discovery and optimization strategies to maximize profit in running plant Describes procedure to develop advance process monitoring and fault diagnosis in running plant Thoughts on engineering design best practices and monitoring to sustain profit improvements Step by step guides to identifying building and deploying improvement applications For leaders and technologists in the industry who want to maximize profit margins this text provides basic concepts guidelines and step by step guides specifically for the chemical plant sector

Recent Advances in Computational Optimization Stefka Fidanova, 2017-06-25 This book presents new optimization approaches and methods and their application in real world and industrial problems and demonstrates how many of the problems arising in engineering economics and other domains can be formulated as optimization problems Constituting a comprehensive collection of extended contributions from the 9th International Workshop on Computational Optimization WCO held in Gdansk Poland September 11 14 2016 the book discusses important applications such as job scheduling wildfire modeling parameter settings for controlling different processes capital budgeting data mining finding the location of sensors in a given network identifying the conformation of molecules algorithm correctness decision support system and computer memory management Further it shows how to develop algorithms for these based on new intelligent methods like evolutionary computations ant colony optimization and constraint programming The book is a valuable resource for researchers and practitioners alike

Parallel Computing Technologies Victor Malyshev, 2017-08-17 This book constitutes the proceedings of the 14th International Conference on Parallel Computing Technologies PaCT 2017 held in Nizhny Novgorod Russia in September 2017 The 25 full papers and 24 short papers presented were carefully reviewed and selected from 93 submissions The papers are organized in topical sections on mainstream parallel computing parallel models and algorithms in numerical computation cellular automata and discrete event systems organization of parallel computation parallel computing applications

Advanced Metaheuristic Algorithms and Their Applications in Structural Optimization Ali Kaveh, Kiarash Biabani Hamedani, 2022-09-17 The main purpose of the present book is to develop a general framework for population based metaheuristics based on some basic concepts of set theory The idea of the framework is to divide the population of individuals into subpopulations of identical sizes Therefore in each iteration of the search process different subpopulations explore the search space independently but simultaneously The framework aims to provide a suitable balance between exploration and exploitation during the search process A few chapters containing algorithm specific

modifications of some state of the art metaheuristics are also included to further enrich the book The present book is addressed to those scientists engineers and students who wish to explore the potentials of newly developed metaheuristics The proposed metaheuristics are not only applicable to structural optimization problems but can also be used for other engineering optimization applications The book is likely to be of interest to a wide range of engineers and students who deal with engineering optimization problems

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