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Multiple Criteria Decision Making Springer Science & Business Media

Advanced Nanocatalysts for Biodiesel Production CRC Press

Multiple Criteria Decision Making IGI Global

A finite analytic solution for three dimensional unsteady laminar and turbulent flow is derived on a curvilinear body-fitted coordinate system so that the flow past an arbitrary body shape can be predicted and solved. The general governing equations for turbulent flows are incompressible three-dimensional, ensemble-averaged Navier-Stokes equations. The Reynolds stresses are modeled by the k - ϵ turbulence model with Boussinesq eddy viscosity assumption. In the numerical solution the velocity components and pressure are considered as primitive dependent variables and solved explicitly. A numerical program called FANS-3DEF (Finite Analytic Numerical Solution of Three Dimensional External Flow) is developed. In the FANS-3DEF program options are made available for users to select. They are (1) dimension, (2) grid system, (3) type of flow, and (4) turbulence models. To verify the numerical accuracy and validity of the turbulence models, the finite analytic solution is first obtained for laminar and turbulent flow over a finite flat plate with or without angles of attack at Reynolds number 10,000, 100,000 and 2.48 million. Then finite analytic

solutions for two axisymmetric bodies without an angle of attack at Reynolds number of 1.2 to 6.6 million are obtained and compared with available experimental data. Good agreement between the predicted result and experimental data is obtained. Finally, the flow past an axisymmetric body with an ogival nose for three different angles of attack, 5, 10 and 15 degree at Reynolds number 3.7 million is solved. Whenever possible the predicted solution are compared with either available numerical results or experimental data.

Embedded System Design: Topics, Techniques and Trends Academic Press

Supplying nearly 350 expertly-written articles on technologies that can maximize and enhance the research and production phases of current and emerging chemical manufacturing practices and techniques, this second edition provides gold standard articles on the methods, practices, products, and standards recently influencing the chemical industries. New material includes: design of key unit operations involved with chemical processes; design, unit operation, and integration of reactors and separation systems; process system peripherals such as pumps, valves, and controllers; analytical techniques and equipment; current industry practices; and pilot plant design and scale-up criteria.

Trustworthy Software Development Processes Springer Nature

This book constitutes the refereed proceedings of the Third

International Conference on Software Process, held in Vancouver, Canada, in May 2009 - colocated with ICSE 2009, the 31st International Conference on Software Engineering. The 33 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 96 submissions. The papers are organized in topical sections on process management, process tools, process analysis, process simulation modeling, experience report, process metrics, and process modeling and representation. Biotechnology for Biofuels: A Sustainable Green Energy Solution IGI Global

The seven-volume set comprising LNCS volumes 8689-8695 constitutes the refereed proceedings of the 13th European Conference on Computer Vision, ECCV 2014, held in Zurich, Switzerland, in September 2014. The 363 revised papers presented were carefully reviewed and selected from 1444 submissions. The papers are organized in topical sections on tracking and activity recognition; recognition; learning and inference; structure from motion and feature matching; computational photography and low-level vision; vision; segmentation and saliency; context and 3D scenes; motion and 3D scene analysis; and poster sessions.

Encyclopedia of Chemical Processing Newnes

While most popular digital design books present a perspective rooted in the 1970s and 1980s, Digital System Design takes the subject into the 21st century. It quickly moves through the low-levels of design, making a clear distinction between design and gate-level minimization. The book also emphasizes how one of the key uses of digital design today is to build high-performance alternatives to software in addition to glue logic. And it swiftly progresses to register-transfer-level (RTL) design since that is the level at which most digital design in practice today is performed.

Digital Design Springer

Over the past several years, embedded systems have emerged as an integral though unseen part of many consumer, industrial, and military devices. The explosive growth of these systems has resulted in embedded computing becoming an increasingly important discipline. The need for designers of high-

performance, application-specific computing systems has never been greater, and many universities and colleges in the US and worldwide are now developing advanced courses to help prepare their students for careers in embedded computing. High-Performance Embedded Computing: Architectures, Applications, and Methodologies is the first book designed to address the needs of advanced students and industry professionals. Focusing on the unique complexities of embedded system design, the book provides a detailed look at advanced topics in the field, including multiprocessors, VLIW and superscalar architectures, and power consumption. Fundamental challenges in embedded computing are described, together with design methodologies and models of computation. HPEC provides an in-depth and advanced treatment of all the components of embedded systems, with discussions of the current developments in the field and numerous examples of real-world applications. Covers advanced topics in embedded computing, including multiprocessors, VLIW and superscalar architectures, and power consumption Provides in-depth coverage of networks, reconfigurable systems, hardware-software co-design, security, and program analysis Includes examples of many real-world embedded computing applications (cell phones, printers, digital video) and architectures (the Freescale Starcore, TI OMAP multiprocessor, the TI C5000 and C6000 series, and others)

Finite Analytic Numerical Solutions of Incompressible Flow Past Inclined Axisymmetric Bodies Packt Publishing Ltd

Multiple Criteria Decision Making (MCDM) is all about making choices in the presence of multiple conflicting criteria. MCDM has become one of the most important and fastest growing subfields of Operations Research/Management Science. As modern MCDM started to emerge about 50 years ago, it is now a good time to take stock of developments. This book aims to present an informal, nontechnical history of MCDM, supplemented with many pictures. It covers the major developments in MCDM, from early history until now. It also covers fascinating discoveries by Nobel Laureates and other prominent scholars. The book begins with the early history of MCDM, which covers the roots of MCDM through the 1960s. It proceeds to give a decade-by-decade account of major developments in the field starting from the 1970s until now. Written in a simple and accessible manner, this book will be of interest to students, academics, and professionals in the field of decision sciences. Contents: The Early History of MCDM MCDM Developments in the 1970s MCDM Developments in the 1980s MCDM Developments in the 1990s and Beyond MCDM Conferences MCDM Society Traditions Awards and Presidents Biographies of Leading MCDM Scholars Conclusion

Readership: Graduate-level students in business administration or operations management; engineers involved in decision making and policy implementation; business analysts, financial planners. Keywords: Multiple Criteria Decision Making; Multiattribute; Multiple Objectives; Multiple Criteria Key Features: First book to cover an informal history of Multiple Criteria Decision Making Covers decade-by-decade developments in MCDM, from early history until now Contains brief biographies and pictures of major contributors in the field Reviews: " Our ability to analyze and resolve complex decision problems is one of the most important developments of the last half of the 20th century. But, like all such endeavors, advances were often based on earlier ideas from a multitude of fields, ideas that encouraged and gave impetus to new generations of researchers. All readers of Multiple Criteria Decision Making: From Early History to the 21st Century will find that the authors have woven the early and modern histories of MCDM into a scientific adventure story, one that helps us to understand better how advances in a field of research are the result of many, many seemingly unrelated activities. " Saul I Gass Professor Emeritus Department of Decision, Operations and Information Technologies Robert H Smith School of Business, University of Maryland, College Park " Rarely do we get to understand the evolution of a scientific field told with such care and understanding. And a handy guide to the MCDM literature as well! I'll have all of my students read it! " Mark H Karwan Praxair Professor in Operations Research, SUNY Distinguished Teaching Professor Industrial and Systems Engineering at the University at Buffalo (SUNY) " I really enjoyed reading this book. It was written by three experts who have lived with MCDM and its history for a long time (two of them for over 40 years!). Now our community has a useful and valuable book that can be used by students and researchers to learn about MCDM and its history. I particularly like the photos which bring the history and its people to life. " Pekka Korhonen Professor of Statistics Aalto University, School of Economics " This book brings to life — contributors, contributions, activities — the evolution, growth, and future directions of MCDM, a multidiscipline that embraces all facets of decision making. Kudos to three highly distinguished MCDM scholars who have written a classic, which should be essential reading and serve as a resource for scholars in all academic and professional disciplines. " Herb Moskowitz Purdue University Retired Professor " K ö ksalan and his co-authors provide us with a better understanding of the history of an important area in OR to which many top researchers have contributed especially over the last twenty to thirty years ... As one of the first such publications covering a specific subfield, this book has certainly set a very high standard. " IFORS Newsletter

Game Theory Solutions for the Internet of Things: Emerging Research and Opportunities John Wiley & Sons

This volume presents the technical program of the 2007 International Embedded Systems Symposium held in Irvine, California. It covers timely topics, techniques and trends in embedded system design, including design methodology, networks-on-chip, distributed and networked systems, and system verification. It places emphasis on automotive and medical

applications and includes case studies and special aspects in embedded system design.

Transactions of the American Mathematical Society Taylor & Francis US

Users increasingly demand more from their software than ever before — more features, fewer errors, faster runtimes. To deliver the best quality products possible, software engineers are constantly in the process of employing novel tools in developing the latest software applications. Progressions and Innovations in Model-Driven Software Engineering investigates the most recent and relevant research on model-driven engineering. Within its pages, researchers and professionals in the field of software development, as well as academics and students of computer science, will find an up-to-date discussion of scientific literature on the topic, identifying opportunities and advantages, and complexities and challenges, inherent in the future of software engineering.

Embedded System Design Springer Nature

This proceedings book highlights the latest research and developments in psychometrics and statistics. Featuring contributions presented at the 82nd Annual Meeting of the Psychometric Society (IMPS), organized by the University of Zurich and held in Zurich, Switzerland from July 17 to 21, 2017, its 34 chapters address a diverse range of psychometric topics including item response theory, factor analysis, causal inference, Bayesian statistics, test equating, cognitive diagnostic models and multistage adaptive testing. The IMPS is one of the largest international meetings on quantitative measurement in psychology, education and the social sciences, attracting over 500 participants and 250 paper presentations from around the world every year. This book gathers the contributions of selected presenters, which were subsequently expanded and peer-reviewed.

High-Performance Embedded Computing Elsevier

"This book addresses the development of reconfigurable embedded control systems and describes various problems in this important research area, which include static and dynamic (manual or automatic) reconfigurations, multi-agent architectures, modeling and verification, component-based approaches, architecture description languages, distributed reconfigurable architectures, real-time and low power scheduling, execution models, and the implementation of such systems"--

Foundations of Software Testing, 2/e Springer

Energy Storage in Energy Markets reviews the modeling, design, analysis, optimization and impact of energy storage systems in energy markets in a way that is ideal for an audience of researchers and practitioners. The book provides deep insights on potential benefits and revenues, economic evaluation, investment challenges, risk analysis, technical requirements, and the impacts of energy storage integration. Heavily referenced and easily accessible to policymakers, developers, engineer, researchers and students alike, this comprehensive resource aims to fill the gap in the role of energy storage in pool/local energy/ancillary service markets and other multi-market commerce. Chapters elaborate on energy market fundamentals, operations, energy storage fundamentals, components, and the role and impact of storage systems on energy systems from different aspects, such as environmental, technical and economics, the role of storage devices in uncertainty handling in energy systems and their contributions in resiliency and reliability improvement. Provides integrated techno-economic analysis of energy storage systems and the energy markets Reviews impacts of electric vehicles as moving energy storage and loads on the electricity market Analyzes the role and impact of energy storage systems in the energy, ancillary, reserve and regulatory multi-market business Applies advanced methods to the economic integration of large-scale energy storage systems Develops an evaluation framework for energy market storage systems

Defying the Limits World Scientific

Wireless Cortical Implantable Systems examines the design for data acquisition and transmission in cortical implants. The first part of the book covers existing system level cortical implants, as well as future devices. The authors discuss the major constraints in terms of microelectronic integrations are presented. The second part of the book focuses on system-level as well as circuit and system level solutions to the development of ultra low-power and low-noise microelectronics for cortical implants. Existing solutions are presented and novel methods and solutions proposed. The third part of the book focuses on the usage of digital impulse radio ultra wide band transmission as an efficient method to transmit cortically neural recorded data at high data rate to the outside world. Original architectural and circuit and system solutions are discussed.

Python Machine Learning Springer

This edited book reports on recent developments in the theory of evolutionary computation, or more generally the domain of randomized search heuristics. It starts with two chapters on mathematical methods that are often used in the analysis of randomized search heuristics, followed by three chapters on how to measure the complexity of a search heuristic: black-box complexity, a counterpart of classical complexity theory in black-box optimization; parameterized complexity, aimed at a more fine-grained view of the difficulty of problems; and the fixed-budget perspective, which answers the question of how good a solution will be after investing a

certain computational budget. The book then describes theoretical results on three important questions in evolutionary computation: how to profit from changing the parameters during the run of an algorithm; how evolutionary algorithms cope with dynamically changing or stochastic environments; and how population diversity influences performance. Finally, the book looks at three algorithm classes that have only recently become the focus of theoretical work: estimation-of-distribution algorithms; artificial immune systems; and genetic programming. Throughout the book the contributing authors try to develop an understanding for how these methods work, and why they are so successful in many applications. The book will be useful for students and researchers in theoretical computer science and evolutionary computing.

Progressions and Innovations in Model-Driven Software Engineering Pearson Education India

As future generation information technology (FGIT) becomes specialized and fr- mented, it is easy to lose sight that many topics in FGIT have common threads and, because of this, advances in one discipline may be transmitted to others. Presentation of recent results obtained in different disciplines encourages this interchange for the advancement of FGIT as a whole. Of particular interest are hybrid solutions that c- bine ideas taken from multiple disciplines in order to achieve something more signi- cant than the sum of the individual parts. Through such hybrid philosophy, a new principle can be discovered, which has the propensity to propagate throughout mul- faceted disciplines. FGIT 2009 was the first mega-conference that attempted to follow the above idea of hybridization in FGIT in a form of multiple events related to particular disciplines of IT, conducted by separate scientific committees, but coordinated in order to expose the most important contributions. It included the following international conferences: Advanced Software Engineering and Its Applications (ASEA), Bio-Science and Bio-Technology (BSBT), Control and Automation (CA), Database Theory and Application (DTA), D- aster Recovery and Business Continuity (DRBC; published independently), Future G- eration Communication and Networking (FGCN) that was combined with Advanced Communication and Networking (ACN), Grid and Distributed Computing (GDC), M- timedia, Computer Graphics and Broadcasting (MulGraB), Security Technology (SecTech), Signal Processing, Image Processing and Pattern Recognition (SIP), and- and e-Service, Science and Technology (UNESST).

Green Nano Solution for Bioenergy Production Enhancement John Wiley & Sons

High-Performance Embedded Computing, Second Edition, combines leading-edge research with practical guidance in a variety of embedded computing topics, including real-time systems, computer architecture, and low-power design. Author Marilyn Wolf presents a comprehensive survey of the state of the art, and guides you to achieve high levels of performance from

the embedded systems that bring these technologies together. The book covers CPU design, operating systems, multiprocessor programs and architectures, and much more. Embedded computing is a key component of cyber-physical systems, which combine physical devices with computational resources for control and communication. This revised edition adds new content and examples of cyber-physical systems throughout the book, including design methodologies, scheduling, and wide-area CPS to illustrate the possibilities of these new systems. Revised and updated with coverage of recently developed consumer electronics architectures and models of computing Includes new VLIW processors such as the TI Da Vinci, and CPU simulation Learn model-based verification and middleware for embedded systems Supplemental material includes lecture slides, labs, and additional resources

Wireless Cortical Implantable Systems Morgan Kaufmann

Quantitative Data Analysis for Language Assessment Volume II: Advanced Methods demonstrates advanced quantitative techniques for language assessment. The volume takes an interdisciplinary approach and taps into expertise from language assessment, data mining, and psychometrics. The techniques covered include Structural Equation Modeling, Data Mining, Multidimensional Psychometrics and Multilevel Data Analysis. Volume II is distinct among available books in language assessment, as it engages the readers in both theory and application of the methods and introduces relevant techniques for theory construction and validation. This book is highly recommended to graduate students and researchers who are searching for innovative and rigorous approaches and methods to achieve excellence in their dissertations and research. It is also a valuable source for academics who teach quantitative approaches in language assessment and data analysis courses.

Process Systems Engineering World Scientific

This book describes how evolutionary algorithms (EA), including genetic algorithms (GA) and particle swarm optimization (PSO) can be utilized for solving multi-objective optimization problems in the area of embedded and VLSI system design. Many complex engineering optimization problems can be modelled as multi-objective formulations. This book provides an introduction to multi-objective optimization using meta-heuristic algorithms, GA and PSO and how they can be applied to problems like hardware/software partitioning in embedded systems, circuit partitioning in VLSI, design of operational amplifiers in analog VLSI, design space exploration in high-level synthesis, delay fault testing in VLSI testing and scheduling in heterogeneous distributed systems. It is shown

how, in each case, the various aspects of the EA, namely its representation and operators like crossover, mutation, etc, can be separately formulated to solve these problems. This book is intended for design engineers and researchers in the field of VLSI and embedded system design. The book introduces the multi-objective GA and PSO in a simple and easily understandable way that will appeal to introductory readers.

CRC Press

The term 'green chemistry' was coined by Anastas and Warner in the early 1990s and it is nowadays the mainstay of designing and implementing advanced chemical processes that decrease or eliminate the use and generation of hazardous substances whilst minimizing energy consumption. Solution Combustion Synthesis of Nanostructured Solid Catalysts for Sustainable Chemistry is an interdisciplinary collection of fundamental and applied cutting-edge studies which highlight general and specific aspects of the synthesis of nanostructured catalysts through Solution Combustion Synthesis (SCS), studying their applications from the perspective of green chemistry. This book intends to integrate the fundamental principles of the SCS process with its engineering aspects and covers the synthesis of a wide variety of catalytic materials. This reference book can be used as a permanent consulting material for students, researchers and the general readership for green chemistry, nanochemistry, materials science and chemical engineering.