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Metaheuristics for Production Systems Springer Nature
The inclusion of nanoparticles has the potential to improve the thermal efficiency of the base fluid. The field of nanofluid (NF) dynamics has attracted important attention due to its extensive range of practical uses like fuel cells, solar energy, medication administration, heat transfer, microfabrication, coolant applications, and other related domains. The aim of this study is to scrutinize the impact of Lorentz force, thermal energy, joule heating, heat source and injection parameters, and Brownian and thermoporetic diffusions on the hybrid nanofluid over the moving wedge. The stability inquiry is reported for the existing work in order to confirm the stable solutions that make the study unique. Novelty of the existing work is to investigate the hybrid nanofluid flow and its stability. The nanoparticles MoS2 and Ag are suspended in ethylene glycol and water used as host fluids. The numerical solution is obtained from the dimensionless first-order differential equations, which are achieved from the basic flow phenomena through similarity alteration variables. The influence of emerging factors on flow phenomena is reported via graphs. The positive eigenvalues report stable solutions, while the negative eigenvalues designate unstable solutions. It is perceived that due to Lorentz force, the rate of the fluid declines while the temperature inside the flow channel enhances. The velocity profile decreases while the temperature and concentration increase with increasing quantities of permeable factors. Similarly, the Forchheimer number causes to enhance the flow rate and decrease the heat and concentration outlines. The current analysis is validated by the published work.

Foundations of Software Technology and Theoretical Computer Science CRC Press
This book discusses the main techniques and newest trends to manage and optimize the production and service systems. The book begins by examining the three main levels of decision systems in production: the long term (strategic), the middle term (tactical) and short term (operational). It also considers online management as a new level (a sub level of the short term). As each level encounters specific problems, appropriate approaches to deal with these are introduced and explained. These problems include the line design, the line balancing optimization, the physical layout of the production or service system, the forecasting optimization, the inventory management, the scheduling etc. Metaheuristics for Production Systems then explores logistic optimization from two different perspectives: internal (production management), addressing issues of scheduling, layout and line designs, and external (supply chain management) focusing on transportation optimization, supply chain evaluation, and location of production. The book also looks at NP-hard problems that are common in production management. These complex configurations may mean that optimal solutions may not be reached due to variables, but the authors help provide a good solution for such problems. The effective new results and solutions offered in this book should appeal to researchers, managers, and engineers in the production and service industries.

Advances in Computational Intelligence Simon and Schuster
This volume contains the proceedings of the 8th Conference on Foundations of Software Technology and Theoretical Computer Science held in Pune, India, on December 21-23, 1988. This internationally well-established Indian conference series provides a forum for actively investigating the interface between theory and practice of Software Science. It also gives an annual occasion for interaction between active research communities in India and abroad. Besides attractive invited papers the volume contains carefully reviewed submitted papers on the following topics: Automata and Formal Languages, Graph Algorithms and Geometric Algorithms, Distributed Computing, Parallel Algorithms, Database Theory, Logic Programming, Programming Methodology, Theory of Algorithms, Semantics and Complexity.

Transactions of the American Institute of Mining, Metallurgical and Petroleum Engineers Springer Science & Business Media
This volume constitutes the refereed proceedings of the 6th International Conference on Principles and Practice of Constraint Programming, CP 2000, held in Singapore in September 2000. The 31 revised full papers and 13 posters presented together with three invited contributions were carefully reviewed and selected from 101 submissions. All current issues of constraint processing, ranging from theoretical and foundational issues to applications in various fields are addressed.

Operating Systems (Self Edition 1.1.Abridged) World Scientific
Volume I of a two-part series, this book features a broad spectrum of 100 challenging problems related to probability theory and combinatorial analysis. The problems, most of which can be solved with elementary mathematics, range from relatively simple to extremely difficult. Suitable for students, teachers, and any lover of mathematics. Complete solutions.

Career Solutions for Creative People Springer Science & Business Media
This two-volume set LNCS 7902 and 7903 constitutes the refereed proceedings of the 12th International Work-Conference on Artificial Neural Networks, IWANN 2013, held in Puerto de la Cruz, Tenerife, Spain, in June 2013. The 116 revised papers were carefully reviewed and selected from numerous submissions for presentation in two volumes. The papers explore sections on mathematical and theoretical methods in computational intelligence, neurocomputational formulations, learning and adaptation emulation of cognitive functions, bio-inspired systems and neuro-engineering, advanced topics in computational intelligence and applications.

Fluids and Electrolytes Princeton University Press
This book constitutes the refereed proceedings of the 17th International Conference on Learning and Intelligent Optimization, LION-17, held in Nice, France, during June 4–8, 2023. The 40 full papers presented have been carefully reviewed and selected from 83 submissions. They focus on all aspects of unleashing the potential of integrating machine learning and optimization approaches, including automatic heuristic selection, intelligent restart strategies, predict-then-optimize, Bayesian optimization, and learning to optimize.

Advanced Information Systems Engineering Routledge
This two-volume set LNCS 12269 and LNCS 12270 constitutes the refereed proceedings of the 16th International Conference on Parallel Problem Solving from Nature, PPSN 2020, held in Leiden, The Netherlands, in September 2020. The 99 revised full papers were carefully reviewed and selected from 268 submissions. The topics cover classical subjects such as automated algorithm selection and configuration; Bayesian- and surrogate-assisted optimization; benchmarking and performance measures; combinatorial optimization; connection between nature-inspired optimization and artificial intelligence; genetic and evolutionary algorithms; genetic programming; landscape analysis; multiobjective optimization; real-world applications; reinforcement learning; and theoretical aspects of nature-inspired optimization.

The Attraction of Gravitation World Scientific
Devoted to the history of general relativity, this text provides reviews from scholars all over the world. Many of the papers originated at the Third International Conference on the History of General Relativity, held at the University of Pittsburgh in the summer of 1991. Topics covered include: disputes with Einstein; the empirical basis of general relativity; variational principles in general relativity; the reception and development of general relativity; and cosmology and general relativity.

Warehousing in the Global Supply Chain Jones & Bartlett Learning
The philosophical problem of identity and the related problem of change go back to the ancient Greek philosophers and fascinated later figures including Leibniz, Locke, and Hume. Heraclitus argued that one could not swim in the same river twice because new waters were ever flowing in. When is a river not the same river? If one removes one plank at a time when is a ship no longer a ship? What is the basic nature of identity and persistence? In this book, André Gallois introduces and assesses the philosophical puzzles posed by things persisting through time. Beginning with essential historical background to the problem he explores the following key topics and debates: mereology and identity, including arguments from 'Leibniz's Law' the constitution view of identity the 'relative identity' argument concerning identity temporary identity four-dimensionalism, counterpart and multiple counterpart theory supervenience the problem of temporary intrinsics the necessity of identity Indeterminate identity presentism criteria of identity conventionalism about identity. Including chapter summaries, annotated further reading and a glossary, this book is essential reading for anyone seeking a clear and informative introduction to and assessment of the metaphysics of identity.

Mathematical Questions and Solutions Springer
This book constitutes revised selected papers from the 6th International Conference on Operations Research and Enterprise Systems, ICORES 2017, held in Porto, Portugal, in February 2017. The 15 papers presented in this volume were carefully reviewed and selected from a total of 90 submissions. They are organized in topical sections named: methodologies and technologies; and applications.

Tabu Search Springer Nature
This book brings together some of the most influential pieces of research undertaken around the world in design synthesis. It is the first comprehensive work of this kind and covers all three aspects of research in design synthesis: - understanding what constitutes and influences synthesis; - the major approaches to synthesis; - the diverse range of tools that are created to support this crucial design task. With its range of tools and methods covered, it is an ideal introduction to design synthesis for those intending to research in this area as well as being a valuable source of ideas for educators and practitioners of engineering design.

Philosophical Transactions of the Royal Society of London Springer
Our collected work contains mathematics education research papers. Comparative studies of school textbooks cover content selection, compilation style, representation method, design of examples and exercises, mathematics investigation, the use of information technology, and composite difficulty level, to name a few. Other papers included are about representation of basic mathematical thought in school textbooks, a study on the compilation features of elementary school textbooks, and a survey of the effect of using new elementary school textbooks.

Bulletin Apress
Perfect for the upper-level undergraduate physics student, Introduction to Electromagnetic Theory presents a complete account of classical electromagnetism with a modern perspective. Its focused approach delivers numerous problems of varying degrees of difficulty for continued study. The text gives special attention to concepts that are important for the development of modern physics, and discusses applications to other areas of physics wherever possible. A generous amount of detail has been in given in mathematical manipulations, and vectors are employed right from the start.

Challenging Mathematical Problems with Elementary Solutions Infinite Study
An introductory textbook with a unique historical approach to teaching number theory The natural numbers have been studied for thousands of years, yet most undergraduate textbooks present number theory as a long list of theorems with little mention of how these results were discovered or why they are important. This book emphasizes the historical development of number theory, describing methods, theorems, and proofs in the contexts in which they originated, and providing an accessible introduction to one of the most fascinating subjects in mathematics. Written in an informal style by an award-winning teacher, Number Theory covers prime numbers, Fibonacci numbers, and a host of other essential topics in number theory, while also telling the stories of the great mathematicians behind these developments, including Euclid, Carl Friedrich Gauss, and Sophie Germain. This one-of-a-kind introductory textbook features an extensive set of problems that enable students to actively reinforce and extend their understanding of the material, as well as fully worked solutions for many of these problems. It also includes helpful hints for when students are unsure of how to get started on a given problem. Uses a unique historical approach to teaching number theory Features numerous problems, helpful hints, and fully worked solutions Discusses fun topics like Pythagorean tuning in music, Sudoku puzzles, and arithmetic progressions of primes Includes an introduction to Sage, an easy-to-learn yet powerful open-source mathematics software package Ideal for undergraduate mathematics majors as well as non-math majors Digital solutions manual (available only to professors)

Introduction to Electromagnetic Theory Springer Nature
This two-volume set LNCS 13398 and LNCS 13399 constitutes the refereed proceedings of the 17th International Conference on Parallel Problem Solving from Nature, PPSN 2022, held in Dortmund, Germany, in September 2022. The 87 revised full papers were carefully reviewed and selected from numerous

submissions. The conference presents a study of computing methods derived from natural models. Amorphous Computing, Artificial Life, Artificial Ant Systems, Artificial Immune Systems, Artificial Neural Networks, Cellular Automata, Evolutionary Computation, Swarm Computing, Self-Organizing Systems, Chemical Computation, Molecular Computation, Quantum Computation, Machine Learning, and Artificial Intelligence approaches using Natural Computing methods are just some of the topics covered in this field.

Information, Knowledge and Agile Creativity Springer

Some previous editions of this book were published from Pearson Education (ISBN 9788131730225). This book, designed for those who are taking introductory courses on operating systems, presents both theoretical and practical aspects of modern operating systems. Although the emphasis is on theory, while exposing you (the reader) the subject matter, this book maintains a balance between theory and practice. The theories and technologies that have fueled the evolution of operating systems are primarily geared towards two goals: user convenience in maneuvering computers and efficient utilization of hardware resources. This book also discusses many fundamental concepts that have been formulated over the past several decades and that continue to be used in many modern operating systems. In addition, this book also discusses those technologies that prevail in many modern operating systems such as UNIX, Solaris, Linux, and Windows. While the former two have been used to present many in-text examples, the latter two are dealt with as separate technological case studies. They highlight the various issues in the design and development of operating systems and help you correlate theories to technologies. This book also discusses Android exposing you a modern software platform for embedded devices. This book supersedes ISBN 9788131730225 and its other derivatives, from Pearson Education India. (They have been used as textbooks in many schools worldwide.) You will definitely love this self edition, and you can use this as a textbook in undergraduate-level operating systems courses.

Parallel Problem Solving from Nature – PPSN XVII Springer Nature

As almost no other technology, embedded systems is an essential element of many innovations in automotive engineering. New functions and improvements of already existing functions, as well as the compliance with traffic regulations and customer requirements, have only become possible by the increasing use of electronic systems, especially in the fields of driving, safety, reliability, and functionality. Along with the functionalities that increase in number and have to cooperate, the complexity of the entire system will increase. Synergy effects resulting from distributed application functionalities via several electronic control devies, exchanging information through the network brings about more complex system architectures with many different sub-networks, operating with different velocities and different protocol implementations. To manage the increasing complexity of these systems, a deterministic behaviour of the control units and the communication network must be provided for, in particular when dealing with a distributed functionality. From Specification to Embedded Systems Application documents recent approaches and results presented at the International Embedded Systems Symposium (IESS 2005), which was held in August 2005 in Manaus (Brazil) and sponsored by the International Federation for Information Processing (IFIP). The topics which have been chosen for this working conference are very timely: design methodology, modeling, specification, software synthesis, power management, formal verification, testing, network, communication systems, distributed control systems, resource management and special aspects in system design.

Operations Research and Enterprise Systems Springer Science & Business Media

This book constitutes the refereed proceedings of the 12th International Conference on Reversible Computation, RC 2020, held in Oslo, Norway, in July 2020. The 17 full papers included in this volume were carefully reviewed and selected from 22 submissions. The papers are organized in the following topical sections: theory and foundation; programming languages; circuit synthesis; evaluation of circuit synthesis; and applications and implementations.

Reversible Computation John Wiley & Sons

Faced with the challenge of solving hard optimization problems that abound in the real world, classical methods often encounter great difficulty - even when equipped with a theoretical guarantee of finding an optimal solution. Vitally important applications in business, engineering, economics and science cannot be tackled with any reasonable hope of success, within practical time horizons, by solution methods that have been the predominant focus of academic research throughout the past three decades (and which are still the focus of many textbooks). The impact of technology and the advent of the computer age have presented us with the need (and opportunity) to solve a range of problems that could scarcely have been envisioned in the past. Weare confronted with applications that span the realms of resource planning, telecommunications, VLSI design, fmancial analysis, scheduling, space planning, energy distribution, molecular engineering, logistics, pattern classification, flexible manufacturing, waste management, mineral exploration, biomedical analysis, environmental conservation and scores of others.