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Jaya: An Advanced Optimization Algorithm and its Engineering Applications The Electrochemical Society
The use of renewable bioenergy is increasing, and so is the production of associated wastes: biomass ashes. This book presents eleven chapters on the options for recycling such biomass ashes, ranging from their use as fertilizer in agriculture and forestry to their application as a supplement for the production of cement-based materials or bricks. The book also examines the pros and cons for each of the different uses of biomass ashes.

Advances in Heat Transfer Unit Operations Springer
Two new chapters on eneral Themodynamic Relations and Variable Specific Heat have been Added.The mistake which had crept in have been elinimated.we wish to express our sincere thanks to numerous professors and students,both at home and abroad,for sending their valuable suggestions and also for recommending the book to their students and friends.

Chemical, Mechanical and Materials Engineering II Springer Science & Business Media
A timely and comprehensive introduction to CO2 heat pump theory and usage A comprehensive introduction of CO2 application in heat pump, authored by leading scientists in the field CO2 is a hot topic due to concerns over global warming and the 'greenhouse effect'. Its disposal and application has attracted considerable research and governmental interest Explores the basic theories, devices, systems and cycles and real application designs for varying applications, ensuring comprehensive coverage of a current topic CO2 heat transfer has everyday applications including water heaters, air-conditioning systems, residential and commercial heating systems, and cooling systems

A Directory of Clothing Research, 1968 New Age International
Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Chemical, Mechanical and Materials Engineering (CMME 2013), January 20-21, 2013, Melbourne, Australia. The papers are grouped as follows: Chapter 1: Material Engineering and Technology; Chapter 2: Material Processing and Machining, Surface and Coating Technologies; Chapter 3: Bio-, Chemical and Medical Engineering and Technologies; Chapter 4: Material Synthesis; Chapter 5: Paper Processing and Biomass Industry; Chapter 6: Product Design and Production Management; Chapter 7: Data Acquisition, Processing and Analysis; Chapter 8: Algoritms; Chapter 9: Manufacturing and Equipment Technologies, Mechanical Engineering; Chapter 10: Engineering and Applied Mechanics; Chapter 11: Optimization; Chapter 12: Automation and Detection Technologies; Chapter 13: Control and PID Control Technologies; Chapter 14: Design in Manufacture.

Fusion Energy Update Springer
Thermodynamics And Thermal Engineering, A Core Text In Si Units, Meets The Complete Requirements Of The Students Of Mechanical Engineering In All Universities. Ultimately, It Aims At Aiding The Students Genuinely Understand The Basic Principles Of Thermodynamics And Apply Those Concepts To Practical Problems Confidently. It Provides A Clear And Detailed Exposition Of Basic Principles Of Thermodynamics. Concepts Like Enthalpy, Entropy, Reversibility, Availability Are Presented In Depth And In A Simple Manner. Important Applications Of Thermodynamics Like Various Engineering Cycles And Processes Are Explained In Detail. Introduction To Latest Topics Are Enclosed At The End.Each Topic Is Further Supplemented With Solved Problems Including Problems From Gate, Ies Exams, Objective Questions Along With Answers, Review Questions And Exercise Problems Alongwith Answers For An Indepth Understanding Of The Subject.

Special Technical Facilities at the National Bureau of Standards Laxmi Publications
This highly informative and carefully presented book offers a comprehensive overview of the fundamentals of thermal engineering. The book focuses both on the fundamentals and more complex topics such as the basics of thermodynamics, Zeroth Law of thermodynamics, first law of thermodynamics, application of first law of thermodynamics, second law of thermodynamics, entropy, availability and irreversibility, properties of pure substance, vapor power cycles, introduction to working of IC engines, air-standard cycles, gas turbines and jet propulsion, thermodynamic property relations and combustion. The author has included end-of-chapter problems and worked examples to augment learning and self-testing. This book is a useful reference to undergraduate students in the area of mechanical engineering.

Advances in Chemical Engineering II John Wiley & Sons
This book is a collection of over 225 multiple choice type questions (MCQs) and more than 40 practice/exam questions with solutions. This book complements a 2-volume textbook set titled Thermal Engineering by the same author. The answers are adequately supported by well-illustrated diagrams wherever necessary for better understanding of the concepts. The book also included steam tables as an appendix to aid in problem solving .This book proves useful for undergraduate students of mechanical engineering and related disciplines. The book is used in conjunction with the author's textbook set on thermal engineering or as a supplement to other core textbooks and lecture materials. It is used to support classroom teaching or as a self-study guide. The problem-solution format also proves useful for students and professionals involved in exam prep for graduate university entrance tests and professional certifications.

A Textbook of Thermal Engineering Academic Press
Energy saving and emission reduction are two of the greatest challenges facing the world today. Heat energy storage can save fuel and effectively use renewable sources. Heat energy storage is decisive for many energy saving measures and promises a reliance on non-traditional renewable energy sources. However, most recent research focused on material selection is scattered, disembodied, and sometimes contradictory. Technology Development for Adsorptive Heat Energy Converters: Emerging Research and Opportunities is an essential publication that offers a cohesive examination of methods of energy storage and conversion. Highlighting a broad range of topics including composite materials, operating principles, and structural characteristics, this book is ideally designed for developers, policymakers, researchers, academicians, students, and engineers in the fields of materials engineering, renewable energy, and environmental engineering.

Thermodynamics and Thermal Engineering Springer Nature
Thermal Engineering covers in a comprehensive and coherent manner fundamentals of thermodynamics and their engineering applications. Beginning with elementary ideas of pressure, temperature and heat, it develops the laws of thermodynamics from experimental and engineering backgrounds. Steam turbine is covered in simple and easy methods of drawing velocity triangles. As thermal science is related to heat transfer, a general overview is presented along with a discussion on various power cycles for improving efficiency.

Thermal Engineering CRC Press
This book gathers papers presented at the 13th International Conference on Mesh Methods for Boundary-Value Problems and Applications, which was held in Kazan, Russia, in October 2020. The papers address the following topics: the theory of mesh methods for boundary-value problems in mathematical physics; non-linear mathematical models in mechanics and physics; algorithms for solving variational inequalities; computing science; and educational systems. Given its scope, the book is chiefly intended for students in the fields of mathematical modeling science and engineering. However, it will also benefit scientists and graduate students interested in these fields.

Advances in Energy Storage Butterworth-Heinemann
?ABOUT THE BOOK: Authors of Thermal Engineering are happy to present a long standing requirement of a book which will be useful to the students from first year to final year mechanical engineering course from various universities. This book covers quite wide spectrum of topics like fundamental concepts, first & second law of thermodynamics, IC engines, Systems of IC engines, Compressors & Gas turbines, Jet propulsion system, Boilers, properties of steam, Steam nozzles and Turbines, Condensers, Refrigeration and air-conditioning, Heat transfer, Fuels and combustion. New topics of today’s interest like pollution and pollution control have been covered. Topics like metal cutting / joining process, machine devices & elements, introduction of mechatronics have also been included. This would give preliminary exposure to the students going to non-mechanical course to acquire some basic ideas about the manufacturing industry. These topics are intended to be studied by all students in the first year level in most of the universities. ?OUTSTANDING FEATURES: - All topics included in the chapters have been thoroughly described. - Every topic has been written in most logical sequence maintaining the natural flow to keep the students interested. - The chapters are arranged such that the beginners will understand the fundamentals of ‘THERMODYNAMICS’ and gradually the topics of applications of thermodynamics have been developed in sequence. The students would be able to get the fundamental concept about all topics included in thermal engineering up to the final year in mechanical engineering, - A large number of solved problems on different topics are included. Numerical problems with answers, as well as theoretical questions have been included for the students to practice. - An alphabetical index is given at the end of the book to facilitate easy search of any topic as required. - The coverage of topics in the book is based on syllabi of universities in Andhra Pradesh, Karnataka, Kerala, Tamilnadu, Maharashtra, Punjab and West Bengal & other major universities. - Clear & simple figures have been included in each chapter for better understanding & also to enable students to draw / reproduce these in the examination easily. - In the entire book SI system of units is used. ?RECOMMENDATIONS: A text for BE (Mech.), B.Tech (Mech.), UPSC (Engineering Services), AMIE, M.Tech. etc. ?ABOUT THE AUTHOR: Prof. D.K. Chavan Mechanical Engineering Department, Marathwada Mitra Mandal’s College of Engineering (M.M.C.O.E.) Pune–52 Ex. Assistant Professor Mechanical Engineering Department, M.I.T., Pune–38 Prof. G.K. Pathak Sr. Faculty Member Mechanical Engineering Department, Maharashtra Institute of Technology M.I.T., Pune–38 ?BOOK DETAILS: ISBN : 978-81-89401-20-7 Pages: 1521 + 32 Edition: 2nd, Year- 2013 Size: L-24.2 B-18.4 H-5.4 ?PUBLISHED BY: STANDARD BOOK HOUSE Since 1960 Unit of Rajsons Publications Pvt Ltd Regd Office: 4262/3A Ground Floor Ansari Road Daryaganj New Delhi-110002 +91 011 43551185/43551085/43751128/23250212 Retail

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CRC Handbook of Thermal Engineering John Wiley & Sons

These are the proceedings of the 2012 International Conference on Chemical Engineering and Advanced Materials (CEAM 2012). The conference provided a forum for the discussion of new developments, recent progress and innovations in chemical engineering and advanced materials, and addressed all aspects of these fields. Emphasis was placed on current and future challenges in research and development for both academia and industry; especially long-term fundamental research aimed at discovering novel phenomena, processes and tools.

Thermal Engineering Alpha Science Int'l Ltd.

Written by leading multiphase flow and CFD experts, this book enables engineers and researchers to understand the use of PBM and CFD frameworks. Population balance approaches can now be used in conjunction with CFD, effectively driving more efficient and effective multiphase flow processes. Engineers familiar with standard CFD software, including ANSYS-CFX and ANSYS–Fluent, will be able to use the tools and approaches presented in this book in the effective research, modeling and control of multiphase flow problems. Builds a complete understanding of the theory behind the application of population balance models and an appreciation of the scale-up of computational fluid dynamics (CFD) and population balance modeling (PBM) to a variety of engineering and industry applications in chemical, pharmaceutical, energy and petrochemical sectors The tools in this book provide the opportunity to incorporate more accurate models in the design of chemical and particulate based multiphase processes Enables readers to translate theory to practical use with CFD software

1989 Springer Nature

This book presents the work done by the RILEM Technical Committee 227-HPB (Physical properties and behaviour of High-Performance Concrete at high temperature). It contains the latest research results on the modelling of concrete behaviour at high temperature. Some monographs on the subject have been published already but generally they do not cover the whole range of possibilities which are encountered in the literature as well as in practice. Moreover, there has been a rapidly increasing development of computational models during the last twenty years, which deserves attention. Therefore, it is the aim of this report to compile and present most of the tools that are proposed in the literature and are nowadays available for practice in some commercial computational packages. The book is divided in 3 main chapters dealing with: - engineering modelling - advanced modelling - constitutive parameters including hydral, thermal and mechanical parameters. The results presented especially target a group of users composed by universities and research laboratories, building material companies and industries, material scientists and experts, building and infrastructure authorities, designers and civil engineers.

Problems and Solutions in Thermal Engineering Springer

As global demands for energy and lower carbon emissions rise, developing systems of energy conversion and storage becomes necessary. This book explores how Electrochemical Energy Storage and Conversion (EESC) devices are promising advanced power systems that can directly convert chemical energy in fuel into power, and thereby aid in proposing a solution to the global energy crisis. The book focuses on high-temperature electrochemical devices that have a wide variety of existing and potential applications, including the creation of fuel cells for power generation, production of high-purity hydrogen by electrolysis, high-purity oxygen by membrane separation, and various high-temperature batteries. High-Temperature Electrochemical Energy Conversion and Storage: Fundamentals and Applications provides a comprehensive view of the new technologies in high-temperature electrochemistry. Written in a clear and detailed manner, it is suitable for developers, researchers, or students of any level.

Energy Research Abstracts Houghton Mifflin Harcourt

The First International Symposium on the Education in Mechanism and Machine Science (ISEMMS 2013) aimed to create a stable platform for the interchange of experience among researches of mechanism and machine science. Topics treated include contributions on subjects such as new trends and experiences in mechanical engineering education; mechanism and machine science in mechanical engineering curricula; MMS in engineering programs, such as, for example, methodology, virtual labs and new laws. All papers have been rigorously reviewed and represent the state of the art in their field.

Faxon ... Librarians' Guide to Serials Trans Tech Publications Ltd

This book introduces readers to the “Jaya” algorithm, an advanced optimization technique that can be applied to many physical and engineering systems. It describes the algorithm, discusses its differences with other advanced optimization techniques, and examines the applications of versions of the algorithm in mechanical, thermal, manufacturing, electrical, computer, civil and structural engineering. In real complex optimization problems, the number of parameters to be optimized can be very large and their influence on the goal function can be very complicated and nonlinear in character. Such problems cannot be solved using classical methods and advanced optimization methods need to be applied. The Jaya algorithm is an algorithm-specific parameter-less algorithm that builds on other advanced optimization techniques. The application of Jaya in several engineering disciplines is critically assessed and its success compared with other complex optimization techniques such as Genetic Algorithms (GA), Particle Swarm Optimization (PSO), Differential Evolution (DE), Artificial Bee Colony (ABC), and other recently developed algorithms.

Technology Development for Adsorptive Heat Energy Converters: Emerging Research and Opportunities Walter de Gruyter GmbH & Co KG

Thermal Engineering Volume 2Springer Nature

Proceedings of the 3rd International Conference on Intelligent Technologies and Engineering Systems (ICITES2014) CRC Press

Features more than 200,000 definitions, as well as revised charts and tables, proofreaders' marks, synonym lists, word histories, context examples, separate biographical and geographical entries, abbreviations, and foreign phrases

1986 IGI Global

Advances in Heat Transfer Unit Operations: Baking and Freezing in Bread Making explains the latest understanding of heat transfer phenomena involved in the baking and freezing of bread and describes the most recent advanced techniques used to produce higher quality bread with a longer shelf life. Heat transfer phenomena occur during key bread-making stages (cold storage, resting, and fermentation) in which temperature and amount of heat transfer must be carefully controlled. This book combines the engineering and technological aspects of heat transfer operations and discusses how these operations interact with the bread making process; the book also discusses how baking and freezing influence the product quality. Divided into fourteen chapters, the book covers the basics of heat and mass transfer, fluid dynamics, and surface phenomena in bread-making industrial operations, mathematical modelling in porous systems, the estimation of thermo-physical properties related to bread making, design of equipment, and industrial applications.