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Advances in Mechanical Engineering Advanced Thermodynamics Advances in Mechanism Design II Design and Development of Heavy Duty Diesel Engines Advances in Engineering Design Internet of Things in Modern Computing Petrodiesel Fuels Urban Transport XIII Advances in Clean Energy Technologies Renewable Fuels Machines, Mechanism and Robotics Poly(vinyl chloride)-based Blends, Interpenetrating Polymer Networks (IPNs), and Gels Current Advances in Mechanical Engineering International Journal of Engineering Research in Africa Advanced Engineering Forum Cryogenics Alternative Fuels : Concepts, Technologies And Developments Advances in Manufacturing Engineering Annual Index/abstracts of SAE Technical Papers Advances in Internal Combustion Engine Research Sustainable Construction Materials The Greening of Petroleum Operations Non Conventional and Renewable Energy Sources Energy Conservation and Management Exergy for A Better Environment and Improved Sustainability 2 Proceedings of International Conference in Mechanical and Energy Technology Reconstituting the Curriculum Handbook of Bioenergy Crop Plants Proceedings of the 7th International Conference on Industrial Engineering (ICIE 2021) Internal Combustion Engines Refrigeration & Air Conditioning Index Medicus Advances in Interdisciplinary Engineering Handbook of Impact Modifiers Computational Intelligence in Sustainable Reliability Engineering Computing in Engineering and Technology Future Grid-Scale Energy Storage Solutions The Basics of Heat Biorefinery Concepts, Energy and Products Water Quality Analysis and Treatment

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Advances in Mechanical Engineering 2020-06-29 this book presents select peer reviewed proceedings of the international conference on advances in mechanical engineering icame 2020 the contents cover latest research in several areas such as advanced energy sources automation mechatronics and robotics automobiles biomedical engineering cad cam cfd advanced engineering materials mechanical design heat and mass transfer manufacturing and production processes tribology and wear surface engineering ergonomics and human factors artificial intelligence and supply chain management the book brings together advancements happening in the different domains of mechanical engineering and hence this will be useful for students and researchers working in mechanical engineering

Advanced Thermodynamics 2013-01-10 advanced thermodynamics covers extensive coverage of thermodynamics applications detailed discussion on chemical thermodynamics explanation of combustion phenomena discussion on entropy exergy and its applications application of phases and gibbs rule statistical thermodynamics description of various distributions and partition function thermodynamic laws and their applications information on gas mixtures thermodynamic property relations

Advances in Mechanism Design II 2016-08-17 this book presents the most recent advances in the research of machines and mechanisms it collects 54 reviewed papers presented at the xii international conference on the theory of machines and mechanisms tmm 2016 held in liberec czech republic september 6 8 2016 this volume offers an international selection of the most important new results and developments grouped in six different parts representing a well balanced overview and spanning the general theory of machines and mechanisms through analysis and synthesis of planar and spatial mechanisms linkages and cams robots and manipulators dynamics of machines and mechanisms rotor dynamics computational mechanics vibration and noise in machines optimization of mechanisms and machines mechanisms of textile machines mechatronics to the control and monitoring systems of machines this conference is traditionally organised every four year under the auspices of the international organisation iftomm and the czech society for mechanics

Design and Development of Heavy Duty Diesel Engines 2019-11-05 this book is intended to serve as a

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comprehensive reference on the design and development of diesel engines it talks about combustion and gas exchange processes with important references to emissions and fuel consumption and descriptions of the design of various parts of an engine its coolants and lubricants and emission control and optimization techniques some of the topics covered are turbocharging and supercharging noise and vibrational control emission and combustion control and the future of heavy duty diesel engines this volume will be of interest to researchers and professionals working in this area

Advances in Engineering Design 2019-04-27 this book presents select proceedings of the international conference on future learning aspects of mechanical engineering flame 2018 the book covers mechanical design areas such as computational mechanics finite element modeling computer aided designing tribology fracture mechanics and vibration the book brings together different aspects of engineering design and will be useful for researchers and professionals working in this field

Internet of Things in Modern Computing 2023-07-13 the text focuses on the theory design and implementation of the internet of things iot in a modern communication system it will be useful to senior undergraduate graduate students and researchers in diverse fields domains including electrical engineering electronics and communications engineering computer engineering and information technology features presents all the necessary information on the internet of things in modern computing examines antenna integration challenges and constraints in the internet of things devices discusses advanced internet of things networks and advanced controllers required for modern architecture explores security and privacy challenges for the internet of things based health care system covers implementation of internet of things security protocols such as mqtt advanced message queuing protocol xmpp and dss the text addresses the issues and challenges in implementing communication and security protocols for iot in modern computing it further highlights the applications of iot in diverse areas including remote health monitoring remote monitoring of vehicle data and environmental characteristics industry 4 0 5g communications and next gen iot networks the text presents case studies on iot in modern digital computing it will serve as an ideal reference text for senior undergraduate graduate students

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and academic researchers in diverse fields domains including electrical engineering electronics and communications engineering computer engineering and information technology

Petrodiesel Fuels 2021-05-05 this third volume of the handbook presents a representative sample of the population papers in the field of petrodiesel fuels following the substantial public concerns on the adverse impact of the emissions from petrodiesel fuels on the environment and human health the research has intensified in the areas related to the reduction of these adverse effects thus bioremediation of spills from crude oils and petrodiesel fuels at sea and soils as well as desulfurization of petrodiesel fuels have emerged as publicly important research areas similarly the emissions from diesel fuel exhausts due to their adverse effects on both human health and environment have been researched more in recent years these emissions cover particulate emissions aerosol emissions and nox emissions research on the adverse impact of petrodiesel fuel exhaust emissions on human health has primarily progressed along the lines of respiratory illnesses cancer and other illnesses such as cardiovascular illnesses brain illnesses and reproductive system illnesses through human animal and in vitro studies it is clear that these illnesses caused by the petrodiesel fuel exhaust emissions have been one of the most significant reasons to develop alternative biodiesel fuels part ix presents a representative sample of the population papers in the field of crude oils covering major research fronts it covers crude oil spills in general crude oil spills and their cleanup properties and removal of crude oils biodegradation of crude oil contaminated soils and crude oil recovery besides an overview paper part x presents a representative sample of the population papers in the field of petrodiesel fuels in general covering major research fronts it covers combustion of biodiesel fuels in diesel engines bioremediation of biodiesel fuel contaminated soils biodiesel power generation and desulfurization of diesel fuels besides an overview paper part xi presents a representative sample of the population papers in the field of emissions from petrodiesel fuels covering major research fronts it covers diesel emission mitigation diesel particulate emissions and diesel nox emissions besides an overview paper part xii presents a representative sample of the population papers in the field of the health impact of the emissions from petrodiesel fuels covering major research fronts it covers respiratory illnesses cancer

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cardiovascular brain and reproductive system illnesses besides an overview paper this book will be useful to academics and professionals in the fields of energy fuels public environmental occupational health pharmacology pharmacy immunology respiratory system allergy and oncology ozcan konur is both a materials scientist and social scientist by training he has published around 200 journal papers book chapters and conference papers he has focused on the bioenergy and biofuels in recent years in 2018 he edited bioenergy and biofuels which brought together the work of over 30 experts in their respective field he also edited the handbook of algal science technology and medicine with a strong section on the algal biofuels in 2020

Urban Transport XIII 2007 the continuing requirement for better urban transport systems and the need for a healthier environment have led to an increased level of research around the world this is reflected in the proceedings presented at the well established international conference on urban transport and the environment in the 21st century this volume presents the steady growth in research into urban transport and will be of particular interest to engineers scientists and managers working in industry universities research organizations and government involved in the planning and management of urban transportation systems and transport policy the variety of topics covered are of primary importance for analysing the complex interaction in the urban transport environment and for establishing action strategies for transport and traffic problems featured topics include transport modelling and simulation public transport systems traffic integration and control infrastructure and maintenance transport sustainability environment and ecological aspects air and noise pollution energy and transport fuels transport security and safety road and parking pricing economic and social impact land use and transport integration advanced transport systems transportation demand analysis

Advances in Clean Energy Technologies 2021-05-30 this book presents select proceedings of the international conference on innovations in clean energy technologies icet 2020 and examines a range of durable energy efficient and next generation smart green technologies for sustainable future by reflecting on the trends advances and development taking place all across the globe the topics covered include smart technologies based product energy efficient systems solar and wind energy carbon sequestration green transportation green

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buildings energy material biomass energy smart cities hydro power bio energy and fuel cell the book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint the book will be a valuable reference for beginners researchers and professionals interested in clean energy technologies

Renewable Fuels 2023-07-17 renewable fuels in the present times have become important to curb emission of greenhouse gases which are causing damage to the environment and leading to climatic changes ideally their utilization can be a zero carbon operation planting suitable trees on all waste lands and agro forestry on a large scale can fulfil the needs of timber fuel fruits etc all kinds of lignocellulosic biomass can be converted by several methods to useful liquid fuels like alcohols biodiesel methane renewable diesel and renewable gasoline hydrogen can be used as a renewable fuel because of its desirable characteristics and properties for its use as a green fuel

Machines, Mechanism and Robotics 2018-08-28 this book offers a collection of original peer reviewed contributions presented at the 3rd international and 18th national conference on machines and mechanisms inacom organized by division of remote handling robotics bhabha atomic research centre mumbai india from december 13th to 15th 2017 inacom 2017 it reports on various theoretical and practical features of machines mechanisms and robotics the contributions include carefully selected novel ideas on and approaches to design analysis prototype development assessment and surveys applications in machine and mechanism engineering serial and parallel manipulators power reactor engineering autonomous vehicles engineering in medicine image based data analytics compliant mechanisms and safety mechanisms are covered further papers provide in depth analyses of data preparation isolation and brain segmentation for focused visualization and robot based neurosurgery new approaches to parallel mechanism based master slave manipulators solutions to forward kinematic problems and surveys and optimizations based on historical and contemporary compliant mechanism based design the spectrum of contributions on theory and practice reveals central trends and newer branches of research in connection with these topics

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Poly(vinyl chloride)-based Blends, Interpenetrating Polymer Networks (IPNs), and Gels 2024-04-12 poly vinyl chloride based blends ipns and gels brings together the latest research on the blending of pvc covering processing materials properties and applications this book addresses these challenges and highlights the state of the art in the field such as the development of eco friendly micro and nanostructured functional materials based on pvc and advances in experimental and theoretical studies of pvc based polymer blends this is a valuable resource for researchers and advanced students in polymer science chemistry composite science and materials science and engineering as well as r d professionals engineers and scientists working with advanced pvc based materials across a range of industries offers methodical in depth coverage of pvc based blends ipns and gels with each polymer type explains advanced methods for pvc based materials with improved properties for a range of novel applications provides avenues for improved sustainability discussing pvc from biomass lifecycle recycling and other environmental considerations

Current Advances in Mechanical Engineering 2021-03-18 this book presents select proceedings of the international conference on recent advances in mechanical engineering research and development icramerd 2020 the contents focus on latest research and current problems in various branches of mechanical engineering some of the topics discussed here include fracture and failure analysis fuels and alternative fuels combustion and ic engines advanced manufacturing technologies powder metallurgy and rapid prototyping industrial engineering and automation supply chain management design of mechanical systems vibrations and control engineering automobile engineering fluid mechanics and machines heat transfer composite materials micro and nano engineering for energy storage and conversion and modeling and simulations the wide range of topics presented in this book can make it useful for beginners researchers as well as professionals in mechanical engineering

International Journal of Engineering Research in Africa 2015-10-29 this periodical edition includes peer reviewed papers based on results of scientific research and engineering solutions in different areas of modern engineering science special chapter is devoted to modeling of heat and mass transfer in different fluid flows

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Advanced Engineering Forum 2015-10-30 periodical edition of the peer reviewed papers as results of modern scientific research and engineering solutions in the various sectors of engineering sciences

Cryogenics 2013 covering cryogenic applications in extensive detail this book discusses cryogenic engines and space and electronic applications in a clear and concise manner

Alternative Fuels : Concepts, Technologies And Developments 2010 this book presents select peer reviewed proceedings of the international conference on futuristic advancements in materials manufacturing and thermal sciences icfammt 2022 the contents of this book provide an overview of the latest research in the area of manufacturing sciences such as metal cutting metal forming casting joining micromachining nonconventional machining and additive manufacturing some of the other themes covered in this book are metal based additive manufacturing polymer based additive manufacturing hybrid additive manufacturing optimization approach for minimizing gd and error in additive manufactured parts the book will be useful for researchers and professionals working in the field of manufacturing engineering

Advances in Manufacturing Engineering 2022-08-29 this book discusses all aspects of advanced engine technologies and describes the role of alternative fuels and solution based modeling studies in meeting the increasingly higher standards of the automotive industry by promoting research into more efficient and environment friendly combustion technologies it helps enable researchers to develop higher power engines with lower fuel consumption emissions and noise levels over the course of 12 chapters it covers research in areas such as homogeneous charge compression ignition hcci combustion and control strategies the use of alternative fuels and additives in combination with new combustion technology and novel approaches to recover the pumping loss in the spark ignition engine the book will serve as a valuable resource for academic researchers and professional automotive engineers alike

Annual Index/abstracts of SAE Technical Papers 2007 sustainable construction materials municipal incinerated bottom ash discusses the global use of virgin aggregates and co2 polluter portland cement given the global sustainability agenda much of the demand for these two sets of materials can be substantially

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reduced through the appropriate use of waste materials thereby conserving natural resources energy and co2 emissions realistically this change can only be realized and sustained through engineering ingenuity and new concepts in design although a great deal of research has been published over the last 50 years it remains fragmented and ineffective this book develops a single global knowledge base encouraging greater use of selected waste streams the focus of massive systematic reviews is to encourage the uptake of recycled secondary materials rsm by the construction industry and guide researchers to recognize what is already known regarding waste provides an extensive source of valuable database information supported by an exhaustive list of globally based published literature over the last 40 50 years offer an analysis evaluation repackaging and modeling of existing knowledge on sustainable construction practices provides a wealth of knowledge for use in many sectors relating to the construction profession

Advances in Internal Combustion Engine Research 2017-11-29 the future of petroleum operations this state of the art text analyzes some of the most contentious issues in the energy industry covering new and greener processes for engineers and scientists and urging them to move petroleum operations closer to sustainability although petroleum is still the world s most diverse efficient and abundant energy source there is a growing initiative from global political and industry leaders to go green because of climate concerns and high gasoline prices this book investigates and details how to do that this groundbreaking new volume explains why current petroleum industry practices are inherently unsustainable and offers unique new solutions for greening the petroleum industry discusses hot button issues such as global warming carbon sequestration zero waste management and sustainability shows engineers and scientists how to implement the processes necessary to be more environmentally conscious offers for the first time a new theory that certain carbons do not contribute to global warming but their origin and the processes involved do praise for the greening of petroleum operations the book proposes a paradigm shift in energy management it correctly identifies root causes of environmental impact of current petroleum production operations with proper science the book shows that fossil fuel production and utilization are inherently sustainable as long as natural materials and energy sources are used

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this book has the potential of revolutionizing energy management practices farouq ali honorary professor of oil and gas engineering university of calgary

Sustainable Construction Materials 2017-10-18 discusses in detail the global energy scenario the thermodynamic analysis of energy has been explained principles of energy conservation and management have been discussed along with the methodology and the economics of energy has been elaborated with concepts like life cycle costing and rate of return procedure and methodology of energy audits has been covered in greater detail also included in the book are the recent developments such as the total energy concepts and integrated energy systems topics such as energy storage co generation waste heat recovery which are important to improve energy efficiency have been discussed in detail with case studies and examples the challenges faced in conserving energy sources like steam and electricity have been elaborated along with the improvements in the lighting sector

The Greening of Petroleum Operations 2011-01-25 this multi disciplinary book presents the most recent advances in exergy energy and environmental issues volume 2 focuses on applications and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide based on selected lectures from the seventh international exergy energy and environmental symposium iees7 2015 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency applications are included that apply to the green transportation and sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book exergy for better environment and sustainability volume 2 will appeal to researchers students and professionals within engineering and the renewable energy fields

Non Conventional and Renewable Energy Sources 2013 this book presents selected peer reviewed papers from

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the international conference on mechanical and energy technologies which was held on 7 8 november 2019 at galgotias college of engineering and technology greater noida india the book reports on the latest developments in the field of mechanical and energy technology in contributions prepared by experts from academia and industry the broad range of topics covered includes aerodynamics and fluid mechanics artificial intelligence nonmaterial and nonmanufacturing technologies rapid manufacturing technologies and prototyping remanufacturing renewable energies technologies metrology and computer aided inspection etc accordingly the book offers a valuable resource for researchers in various fields especially mechanical and industrial engineering and energy technologies

Energy Conservation and Management 2014 based on groundbreaking new ideas this treatise signals a return to a rebuilding and reshaping of the curriculum as the primary tool for education this book presents a new definition of curriculum and what it should consist of with a view toward creating a more ethical educated and thinking person rather than treating students as products for society this approach returns to a view of the curriculum as a tool for educating students to reason through problems be bold in creating new solutions and contribute to a more vibrant just world the university curriculum introduced in the post renaissance era dominated by doctrinal philosophy is based on learning or skill development suitable for creating a learned society that would eventually serve the establishment this curriculum has been promoted as the only form suitable for the modern education system it has introduced a tremendous amount of tangible advancement in all fields of the structured education system these tangible gains are often promoted as knowledge this has created confusion between education acquiring knowledge and learning training or skill development this book seeks to clarify the difference between these two divergent views of education it has been shown that the current curriculum is not conducive to increasing a student s knowledge because it is based on consolidating preconceived ideas that have been either passed on from previous generations or gained through personal experience in most cases this mode of cognition will not create a pathway for gaining knowledge that brings one closer to discovery the term education on the other hand is always meant to be a process of bringing forth one s

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inherent qualities and unique traits necessary and sufficient for increasing one's knowledge

Exergy for A Better Environment and Improved Sustainability 2 2018-08-22 as the world's population is projected to reach 10 billion or more by 2100 devastating fossil fuel shortages loom in the future unless more renewable alternatives to energy are developed bioenergy in the form of cellulosic biomass starch sugar and oils from crop plants has emerged as one of the cheaper cleaner and environmentally sustainable alternatives to traditional forms of energy handbook of bioenergy crop plants brings together the work of a panel of global experts who survey the possibilities and challenges involved in biofuel production in the twenty first century section one explores the genetic improvement of bioenergy crops ecological issues and biodiversity feedstock logistics and enzymatic cell wall degradation to produce biofuels and process technologies of liquid transportation fuels production it also reviews international standards for fuel quality unique issues of biofuel powered engines life cycle environmental impacts of biofuels compared with fossil fuels and social concerns section two examines commercialized bioenergy crops including cassava jatropha forest trees maize oil palm oilseed brassicas sorghum soybean sugarcane and switchgrass section three profiles emerging crops such as brachypodium diesel trees minor oilseeds lower plants paulownia shrub willow sugarbeet sunflower and sweet potato it also discusses unconventional biomass resources such as vegetable oils organic waste and municipal sludge highlighting the special requirements major achievements and unresolved concerns in bioenergy production from crop plants the book is destined to lead to future discoveries related to the use of plants for bioenergy production it will assist in developing innovative ways of ameliorating energy problems on the horizon

Proceedings of International Conference in Mechanical and Energy Technology 2020-06-01 this book highlights recent findings in industrial manufacturing and mechanical engineering and provides an overview of the state of the art in these fields mainly in russia and eastern europe a broad range of topics and issues in modern engineering is discussed including the dynamics of machines and working processes friction wear and lubrication in machines surface transport and technological machines manufacturing engineering of industrial facilities materials engineering metallurgy control systems and their industrial applications industrial

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mechatronics automation and robotics the book gathers selected papers presented at the 7th international conference on industrial engineering icie held in sochi russia in may 2021 the authors are experts in various fields of engineering and all papers have been carefully reviewed given its scope the book will be of interest to a wide readership including mechanical and production engineers lecturers in engineering disciplines and engineering graduates

Reconstituting the Curriculum 2013-11-13 this book on internal combustion ic engines is a part of the curriculum of mechanical engineering in major universities it is the result of dr thipse s practical industrial experience and research work besides teaching the subject for several years in different universities the subject has been dealt with from all angles and is written in a concise clear and logical manner new trends and recent developments in the field of ic engines have been discussed in detail the book includes solutions to a wide variety of numerical problems appearing in a diverse array of examinations the book serves a dual purpose as it can be used by both students and engineers it will serve as a textbook for engineering students studying the subject at the undergraduate level while automotive engineers can use the book as a reference

Handbook of Bioenergy Crop Plants 2012-03-22 this book is a complete textbook for undergraduate students in mechanical engineering and will serve as a reference for postgraduate students and practicing engineers the subject material covered in this book contains new topics relevant to the undergraduate curriculums of most universities it is student friendly concise with good illustrations and problem solving hints the author has used his experience of teaching this subject in india and the us universities in designing this book he has also made full use of his industrial consulting experience in the field of refrigeration and air conditioning in making this textbook up to date with the current scenario in the field of rac key features extensive coverage of rac applications up to date with recent advances in cryogenics detailed discussion on rac controls explanation of latest rac equipment including ahus revision of basic thermodynamics and heat transfer complete and thorough coverage of all topics

Proceedings of the 7th International Conference on Industrial Engineering (ICIE 2021) 2022-01-01

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vols for 1963 include as pt 2 of the jan issue medical subject headings

Internal Combustion Engines 2010 this book presents select proceedings of the international conference on future learning aspects of mechanical engineering flame 2018 the book discusses interdisciplinary areas such as automobile engineering mechatronics applied and structural mechanics bio mechanics biomedical instrumentation ergonomics biodynamic modeling nuclear engineering agriculture engineering and farm machineries the contents of the book will benefit both researchers and professionals

Refrigeration & Air Conditioning 2005 handbook of impact modifiers provides key information on how to modify structure and morphology improve mechanical performance and prevent changes during the use of polymeric products through proper selection of impact modifiers the book brings analyses of important publications found in open and patent literature with special attention given to recent findings that have brought many new essential developments sections cover an analysis of chemical origin and related properties of impact modifiers which are analyzed in general terms to highlight the differences in their properties this handbook contains the essential theoretical knowledge required for proper selection and use of impact modifiers including their morphological structure and distribution in a polymer matrix the effect of polymer crystallization in the presence of and without impact modifiers important influences on impact modification mechanisms of modification and effective methods of incorporation of impact modifiers outlines strategies for modifying the structure and improving the mechanical properties of polymeric products through proper application of impact modifiers provides detailed information on impact modifiers including their morphological structure and distribution in a polymer matrix the effects of polymer crystallization with and without impact modifiers influences on impact modification the mechanisms of modification and more includes analytical techniques health and safety and environmental considerations and processing methods

Index Medicus 2002 computational intelligence in sustainable reliability engineering the book is a comprehensive guide on how to apply computational intelligence techniques for the optimization of sustainable materials and reliability engineering this book focuses on developing and evolving advanced computational

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intelligence algorithms for the analysis of data involved in reliability engineering material design and manufacturing to ensure sustainability computational intelligence in sustainable reliability engineering unveils applications of different models of evolutionary algorithms in the field of optimization and solves the problems to help the manufacturing industries some special features of this book include a comprehensive guide for utilizing computational models for reliability engineering state of the art swarm intelligence methods for solving manufacturing processes and developing sustainable materials high quality and innovative research contributions and a guide for applying computational optimization on reliability and maintainability theory the book also includes dedicated case studies of real life applications related to industrial optimizations audience researchers industry professionals and post graduate students in reliability engineering manufacturing materials and design

Advances in Interdisciplinary Engineering 2019-05-31 the book is a collection of selected high quality research papers presented at the international conference on computing in engineering and technology iccet 2019 held on january 10 11 2019 at deogiri institute of engineering and management studies aurangabad india focusing on frontier topics and next generation technologies it presents original and innovative research from academics scientists students and engineers alike

Handbook of Impact Modifiers 2022-03-17 providing a detailed understanding of why heat and electricity energy storage technologies have developed so rapidly future grid scale energy storage solutions mechanical and chemical technologies and principles presents the required fundamentals for techno economic and environmental analysis of various grid scale energy storage technologies through a consistent framework each chapter outlines state of the art advances benefits and challenges energy and exergy analyses models of these technologies as well as an elaboration on their performance under dynamic and off design operating conditions chapters include a case study analysis section giving a detailed understanding of the systems thermodynamics and economic and environmental performance in real operational conditions and wrap up with a discussion of the future prospects of these technologies from commercial and research perspectives this book is a highly

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beneficial reference for researchers and scientists dealing with grid scale energy storage systems as a single comprehensive book providing the information and fundamentals required to do modeling analysis and or feasibility studies of such systems features all the major mechanical and chemical energy storage systems including electricity and thermal energy storage methods includes step by step energy and exergy modeling including off design performance modeling provides future perspectives for technologies describing how they will contribute to the future smart energy systems

Computational Intelligence in Sustainable Reliability Engineering 2023-02-16 we often automatically equate heat with temperature to such a degree that we may not take the time to consider what heat really is heat refers to the energy that is transferred from one body to another that is at a lower temperature this transfer occurs often without us knowing it but it is ever present and crucial to all life this volume examines the basics of heat and the related concept of temperature detailed diagrams help illustrate such concepts as specific heat capacity and latent heat clear text explains the difference between conduction convection and radiation as well as emitters absorbers and more

Computing in Engineering and Technology 2019-10-16 the interest in biofuel production and application is governed by the depletion of fossil fuel resources and the threatening pollution of the atmosphere because of the extensive emissions of greenhouse gases which the present global vegetation cannot cope with a remedy against the greenhouse gas emissions is the use of biomass presently grown as a source for biofuels biofuels can be further utilized as substrates for bulk chemical products this approach is known as the biorefinery concept as an analogue to the oil based refineries the present book offers some examples and new ideas for the broader applications of biofuels and the resulting raw materials for energy and chemical products as alternatives to the traditional fossil fuels

Future Grid-Scale Energy Storage Solutions 2023-03-25 water treatment and analysis is a comprehensive book that covers the fundamental principles and practices of water treatment and analysis the book provides a detailed overview of the various methods used for water treatment including physical chemical and biological

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methods and explains their applications in different types of water treatment processes the book also covers the analysis of water quality including the measurement of various parameters such as ph dissolved oxygen turbidity and conductivity as well as the identification and quantification of contaminants such as bacteria viruses and heavy metals in addition the book discusses treatment technologies and cleaner water production strategies and provides an overview of the current issues and challenges facing the water treatment industry the book is intended for students and professionals in the field of water treatment and analysis as well as for anyone interested in learning about the importance of water quality and the methods used to maintain it

The Basics of Heat 2014-07-15

Biorefinery Concepts, Energy and Products 2020-10-07

Water Quality Analysis and Treatment 2023-07-20

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