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Energy Research Abstracts Heat and Mass Transfer in Building Energy Performance Assessment Hearings, Reports and Prints of the Senate Select Committee on Small Business Energy: a Continuing Bibliography with Indexes Assessment of Parabolic Trough and Power Tower Solar Technology Cost and Performance Forecasts Energy Policy Design in the Eastern Mediterranean Basin Eco-Architecture V Renewable Energy for Sustainable Growth Assessment Scientific and Technical Aerospace Reports International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set Animal Welfare Assessment, Volume II Handbook of Research on Perception-Driven Approaches to Urban Assessment and Design An Assessment of the Technology of Rankine Engines for Automobiles Viability Assessment of a Repository at Yucca Mountain: Preliminary design concept for the repository and waste package The Effect of Temperature and other Factors on Plastics and Elastomers Sustainability Assessment of Renewables-Based Products Handbook of Environmental Impact Assessment Safety Assessment for Chemical Processes Reactor Safety Study, an Assessment of Accident Risks in U.S. Commercial Nuclear Power Plants Reactor Safety Study: an Assessment of Accident Risks in U.S. Commercial Nuclear Power Plants Predictive Modeling and Risk Assessment Advances in Modeling, Assessment, and Prevention of Geotechnical and Geological Disasters Advances in Environmental, Economic and Social Assessment of Energy Systems Palpation and Assessment in Manual Therapy Draft Environmental Assessment Technological Advances in Microbiological Risk Assessment Damage Mechanisms and Life Assessment of High Temperature Components NASA Technical Memorandum Workplace Monitoring Procedures Manual Carbon-Neutral Fuels and Energy Carriers Title List of Documents Made Publicly Available Assessment of Geothermal Resources of the United States, 1975 Spatial Modeling and Assessment of Urban Form Life Cycle Assessment: New Developments And Multi-disciplinary Applications A Technology Assessment of Geothermal Energy Resource Development Issues in Environmental Law, Policy, and Planning: 2011 Edition Ocular Surface Disease: Cornea, Conjunctiva and Tear Film E-Book Handbook of Standards and Guidelines in Human Factors and Ergonomics, Second Edition Elevated Temperature Design and Analysis, Nonlinear Analysis, and Plastic Components--2004 Solar Energy Update

Energy Research Abstracts 1993

semiannual with semiannual and annual indexes references to all scientific and technical literature coming from doe its laboratories energy centers and contractors includes all works deriving from doe other related government sponsored information and foreign nonnuclear information arranged under 39 categories e g biomedical sciences basic studies biomedical sciences applied studies health and safety and fusion energy entry gives bibliographical information and abstract corporate author subject report number indexes

Heat and Mass Transfer in Building Energy Performance Assessment 2019-12-03

the building industry is influenced by many factors and trends reflecting the current situation and developments in social economic technical and scientific fields one of the most important trends seeks to minimize the energy demand this can be achieved by promoting the construction of buildings with better thermal insulating capabilities of their envelopes and better efficiency in heating ventilation and air conditioning systems any credible assessment of building energy performance includes the identification and simulation of heat and mass transfer phenomena in both the building envelope and the interior of the building as the interaction between design elements climate change user behavior heating effectiveness ventilation air conditioning systems and lighting is not straightforward the assessment procedure can present a complex and challenging task the simulations should then involve all factors affecting the energy performance of the building in questions however the appropriate choice of physical model of heat and mass transfer for different building elements is not the only factor affecting the output of building energy simulations the accuracy of the material parameters applied in the models as input data is another potential source of uncertainty for instance neglecting the dependence of hygric and thermal parameters on moisture content may affect the energy assessment in a significant way boundary conditions in the form of weather data sets represent yet another crucial factor determining the uncertainty of the outputs in light of recent trends in climate change this topic is vitally important this special issue aims at providing recent developments in laboratory analyses computational modeling and in situ measurements related to the assessment of building energy performance based on the proper identification of heat and mass transfer processes in building structures potential topics include but are not limited to the following development calibration and validation of advanced mathematical models for the description of heat and mass transfer in building materials and structures computational modeling of heat and mass transfer in building materials and structures aimed at energy performance assessment boundary conditions for building energy performance simulations in light of climate change trends advanced experimental techniques for the determination of heat and mass transport and the storage properties of building materials on site monitoring and verification of building energy performance research and development of new materials with high potential to improve the energy performance of buildings

Hearings, Reports and Prints of the Senate Select Committee on Small Business 1975

sargent and lundy llc conducted an independent analysis of parabolic trough and power tower solar technology cost and performance

Energy: a Continuing Bibliography with Indexes 1982

this book explores energy consumption and thermal comfort in the social housing sector in the eastern mediterranean basin this book presents a novel methodological framework for the optimisation of post war social housing developments in the eastern mediterranean climate the authors draw on semi structured interviews to present evidence on in situ thermal sensation and provide the results of walk through and walk in thermographic surveys to highlight building fabric performance and highlight anomalies in the building envelopes the authors go on to show how this data informed retrofit design solution can be applied to reduce household energy consumption increase awareness of domestic energy use and inform effective policymaking decisions in energy use in the eastern mediterranean basin including the development of energy performance certificate schemes this book will be of great interest to students and scholars of energy policy energy efficiency and planning it will also assist architects building engineers and other practitioners in closing the gap between the current understanding and the actual performance of existing residential building stocks in the eastern mediterranean basin

Assessment of Parabolic Trough and Power Tower Solar Technology Cost and Performance Forecasts 2003

this book contains the proceedings of the fifth international conference on harmonisation between architecture and nature eco architecture 2014 eco architecture implies a new approach to the design process intended to harmonise its products with nature this involves ideas such as minimum use of energy at each stage of the building process taking into account the amount required during the extraction and transportation of materials their fabrication assembly building erection maintenance and eventual future recycling another important issue is the adaptation of the architectural design to the natural environment learning from nature and long time honoured samples of traditional constructions the papers in this book deal with topics such as building technologies design by passive systems design with nature cultural sensitivity life cycle assessment resources and rehabilitation and many others also included are case studies from many different places around the world eco architecture by definition is a highly multi disciplinary subject eco architecture v harmonisation between architecture and nature will therefore be of interest to in addition to architects many other professionals including engineers planners physical scientists sociologists and economists topics covered include design with nature energy efficiency building technologies ecological impacts of materials bioclimatic design water quality green facades ecological and cultural sensitivity education and training case studies design by passive systems adapted reuse life cycle assessment and durability transformative design sustainability indices in architecture

Energy Policy Design in the Eastern Mediterranean Basin 2023-09-28

renewable energy for sustainable growth assessment written and edited by a team of experts in the field this collection of papers reflects the most up to date and comprehensive current state of renewable energy for sustainable growth assessment and provides practical solutions for engineers and scientists renewable energy resources are gaining more attention in academia and industry as one of the preferred choices of sustainable energy conversion due to global energy demand environmental

impacts economic needs and social issues rers are encouraged and even funded by many governments around the world today researchers are facing numerous challenges as this field emerges and develops but at the same time new opportunities are waiting for rers utilization in sustainable development all over the globe efficient energy conversion of solar wind biomass fuel cells and other techniques are gaining more popularity and are the future of energy the present book cross pollinates recent advances in the study of renewable energy for sustainable growth various applications of rers modeling and performance analysis grid integration soft computing optimization artificial intelligence ai as well as machine and deep learning aspects of rers are extensively covered whether for the veteran engineer or scientist the student or a manager or other technician working in the field this volume is a must have for any library this outstanding new volume assesses the current and future need for energy on a global scale and reviews the role of renewable energy includes multiple chapters on biomass and bioenergy also includes multiple chapters on solar energy and pvs also includes chapters on fuel cells wind power and many other topics covers the design and implementation of power electronics for energy systems outlines best practices and the state of the art for renewable energy with regard to sustainability audience engineers scientists technicians managers students and faculty working in the field of renewable energy sustainability and power system

Eco-Architecture V 2014-09-24

lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the nasa scientific and technical information database

Renewable Energy for Sustainable Growth Assessment **2022-02-24**

the first encyclopedia in the field the international encyclopedia of ergonomics and human factors provides a comprehensive and authoritative compendium of current knowledge on ergonomics and human factors it gives specific information on concepts and tools unique to ergonomics about 500 entries published in three volumes and on cd rom are pre

Scientific and Technical Aerospace Reports 1987

the creation of metropolitan areas is influenced by a wide array of factors both practical and ecological they can also be influenced by immaterial characteristics of a given area the handbook of research on perception driven approaches to urban assessment and design is a scholarly resource that assesses metropolitan development and its relation to the ecological and sustainability issues these areas face featuring coverage on a wide range of topics such as user centered urban planning perception of urban landscapes and thermal comfort in urban contexts this publication is geared toward professionals practitioners researchers and students seeking relevant research on the effective planning of metropolitan areas and their relation to the ecological and sustainability issues that face such areas

International Encyclopedia of Ergonomics and Human Factors

- 3 Volume Set 2000-12-14

the effect of temperature and other factors on the properties of plastics and elastomers fourth edition provides data on the wide spectrum of plastics and types with special reference to thermal stability the mechanical physical and electrical properties of plastics and elastomers are described as a function of temperature and humidity to help with the design of lighter more cost effective plastic parts to replace metal ones in this new edition expertly edited data makes it easy for readers to learn about the properties of plastic materials without having to search the general literature or depend on suppliers additional types of plastics are examined and the latest data on material characteristics are provided complex details such as how the thermal prehistory can effect final mechanical properties and how temperature scans reveal dynamic mechanical behavior are also examined to build a deeper understanding of the materials fully updated edition features full coverage of the new data new plastics and applications that have emerged in recent years features reorganization of plastics data by manufacturer facilitating quick reference

Animal Welfare Assessment, Volume II 2021-09-30

over the past decade renewables based technology and sustainability assessment methods have grown tremendously renewable energy and products have a significant role in the market today and the same time sustainability assessment methods have advanced with a growing standardization of environmental sustainability metrics and consideration of social issues as part of the assessment sustainability assessment of renewables based products methods and case studies is an extensive update and sequel to the 2006 title renewables based technology sustainability assessment it discusses the impressive evolution and role renewables have taken in our modern society highlighting the importance of sustainability principles in the design phase of renewable based technologies and presenting a wide range of sustainability assessment methods suitable for renewables based technologies together with case studies to demonstrate their applications this book is a valuable resource for academics businesses and policy makers who are active in contributing to more sustainable production and consumption for more information on the wiley series in renewable resources visit wiley com go rrs topics covered include the growing role of renewables in our society sustainability in the design phase of products and processes principles of sustainability assessment land use analysis water use analysis material and energy flow analysis exergy and cumulative exergy analysis carbon and environmental footprint methods life cycle assessment lca social life cycle assessment and life cycle costing lcc case studies renewable energy bio based chemicals and bio based materials

Handbook of Research on Perception-Driven Approaches to Urban Assessment and Design 2018-01-05

reviewing over 50 years of environmental impact assessment eia policy making and implementation around the world this thought provoking handbook provides a comprehensive overview of the current research surrounding eia presenting new trends in law and policy making it highlights best practices in the application of technology to impact prediction and management procedural efficiency decision making and public participation

An Assessment of the Technology of Rankine Engines for Automobiles 1977

in spite of the good safety records of chemical plants many people regard chemical production as dangerous because of a few major accidents that have occurred a knowledge of at least the fundamentals of chemical safety technology is indispensable for chemists and engineers working in chemical industry the increasingly stringent legal and administrative requirements can only be answered by more highly qualified employees this book combines the author's experience of 15 years of research in the field of chemical safety and 10 years in the chemical industry it provides newcomers with an easy access to the field and helps practitioners in the chemical industry to answer all questions concerning their daily work with hazardous materials or potentially dangerous chemical plants the investigation of risks and preventive measures to be taken to minimize the probability of an accident as well as its consequences are explained

Viability Assessment of a Repository at Yucca Mountain: Preliminary design concept for the repository and waste package 1998

the single most important task of food scientists and the food industry as a whole is to ensure the safety of foods supplied to consumers recent trends in global food production distribution and preparation call for increased emphasis on hygienic practices at all levels and for increased research in food safety in order to ensure a safer global food supply the iseki food book series is a collection of books where various aspects of food safety and environmental issues are introduced and reviewed by scientists specializing in the field in all of the books a special emphasis was placed on including case studies applicable to each specific topic the books are intended for graduate students and senior level undergraduate students as well as professionals and researchers interested in food safety and environmental issues applicable to food safety the idea and planning of the books originates from two working groups in the european thematic network iseki food an acronym for integrating safety and environmental knowledge in to food studies participants in the iseki food network come from 29 countries in europe and most of the institutes and universities involved with food science education at the university level are represented some international companies and non teaching institutions have also participated in the program the iseki food network is coordinated by professor cristina silva at the catholic university of portugal college of biotechnology escola in porto the program has a web site at esb.ucp.pt/iseki

The Effect of Temperature and other Factors on Plastics and Elastomers 2023-04-04

the overall energy sector calls for a transformation from a fossil based system to a low carbon one at a technology level significant efforts have been made to provide energy solutions that contribute to a sustainable energy system however the actual suitability of these solutions is often not checked in this sense the assessment of energy systems from a life cycle perspective is of paramount importance when it comes to effectively planning the energy sector while environmental issues are commonly addressed through the use of the life cycle assessment lca methodology the comprehensive evaluation of the economic and social aspects of energy systems often

remains ignored or underdeveloped this book consists of a set of scientific works addressing the analysis of energy systems from a life cycle technical economic environmental and or social standpoint case studies at and beyond the technology level are included some of them involving a combination of life cycle and non life cycle approaches for the thorough evaluation of energy systems under the umbrella of sustainability

Sustainability Assessment of Renewables-Based Products 2016-01-19

as the title suggests this book has been written to assist manual therapists to understand and hone the palpatory skills which are essential to their effectiveness as practitioners skilful palpation is the foundation stone of all effective manual therapy assessments and treatments the ability to use subtle and sensitive touch to examine and assess patients is essential for an accurate interpretation of the underlying problems of fascial and muscle function the accurate interpretation of palpatory findings is difficult and comes with experience this book aims to increase awareness of how to palpate and understanding of what is being felt in this fourth edition of his now well established and much loved book leon chaitow has introduced references to the latest research findings relating to fascia and its role in health and disease so that practitioners can apply this knowledge in interpreting what they palpate in addition to the author six notable contributors from europe and north america enhance the work s range and authority all manual therapists whatever their professional background will benefit from the wealth of experience and research based information presented in this book

Handbook of Environmental Impact Assessment 2022-09-08

concerns over an unstable energy supply and the adverse environmental impact of carbonaceous fuels have triggered considerable efforts worldwide to find carbon free or low carbon alternatives to conventional fossil fuels carbon neutral fuels and energy carriers emphasizes the vital role of carbon neutral energy sources transportation fuels and a

Safety Assessment for Chemical Processes 2008-07-11

this book discusses the application of geospatial data geographic information system gis and remote sensing rs technologies in analysis and modeling of urban growth process and its pattern with special focus on sprawl and compact form of urban development the book explains these two kinds of urban forms sprawl and compact urban development in detail regarding their advantages disadvantages indicators assessment modeling implementation and their relationship with urban sustainability it confirms that the proposed modeling approaches geospatial data and gis are very practical for identifying urban growth land use change patterns and their general trends in future the analyses and modeling approaches presented in this book can be employed to guide the identification and measurements of the changes and growth likely to happen in urban areas in addition this book can be helpful for town planning and development in order to design urban areas in a compact form and eventually sustainable manner

Reactor Safety Study, an Assessment of Accident Risks in U.S. Commercial Nuclear Power Plants 1975

life cycle assessment lca is internationally accepted as a core topic in the field of environmental management in various industries for obtaining a complete picture of the environmental impacts of products or processes in contrast to other types of environmental management tools or sustainability assessment methods lca methodologies take a holistic approach to include all relevant processes starting from the extraction of natural resources to various manufacturing stages that lead to the final product following an evidence approach lca is underpinned by quantitative methodologies to study real world problems and uncover hidden impacts beyond the conventional boundary of a single stage manufacturing system to develop sustainable strategies that consider regional or global production chains this book offers multi disciplinary perspectives of new lca developments and applications spanning from data variability to ecosystem services plus the evaluation of the net greenhouse gas from carbon capture and utilization ccu methods and waste management perspectives of green chemistry principles via lca combined with life cycle atom economy approaches are explored industrial symbiosis concepts lca as an entrepreneurial tool for business management and green innovations and blockchain enabled lca are also presented

Reactor Safety Study: an Assessment of Accident Risks in U.S. Commercial Nuclear Power Plants 1975

issues in environmental law policy and planning 2011 edition is a scholarly editions ebook that delivers timely authoritative and comprehensive information about environmental law policy and planning the editors have built issues in environmental law policy and planning 2011 edition on the vast information databases of scholarly news you can expect the information about environmental law policy and planning in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in environmental law policy and planning 2011 edition has been produced by the world's leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarly editions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarly editions com

Predictive Modeling and Risk Assessment 2008-12-02

ocular surface disease cornea conjunctiva and tear film incorporates current research and the latest management strategies as well as classification systems and treatment paradigms for all forms of ocular surface disease this is the first comprehensive resource that helps you to meet ocular surface disease challenges effectively using today's best medical and surgical approaches get the complete evidence based guidance you need to provide optimal care for your patients with ocular surface disease implement the latest drug treatments and surgical interventions to provide better outcomes with fewer complications hone and expand your surgical skills by watching videos of leading experts performing advanced procedures including ocular surface transplantation techniques amniotic membrane transplantation pterygium surgery lamellar keratoplasty dalk in ocular surface disease and keratoprosthesis surgery visualize how to proceed by reviewing detailed full color images and consulting new classification

systems and treatment paradigms for mild to severe forms of ocular surface disease take it with you anywhere access the full text downloadable image library video clips and more online at expertconsult com

Advances in Modeling, Assessment, and Prevention of Geotechnical and Geological Disasters 2022-10-19

with an updated edition including new material in additional chapters this one of a kind handbook covers not only current standardization efforts but also anthropometry and optimal working postures ergonomic human computer interactions legal protection occupational health and safety and military human factor principles while delineating the crucial role that standards and guidelines play in facilitating the design of advantageous working conditions to enhance individual performance the handbook suggests ways to expand opportunities for global economic and ergonomic development this book features guidance on the design of work systems including tasks equipment and workspaces as well as the work environment in relation to human capacities and limitations emphasis on important human factors and ergonomic standards that can be utilized to improve product and process to ensure efficiency and safety a focus on quality control to ensure that standards are met throughout the worldwide market

Advances in Environmental, Economic and Social Assessment of Energy Systems 2020-12-07

Palpation and Assessment in Manual Therapy 2017-01-01

Draft Environmental Assessment 1984

Technological Advances in Microbiological Risk Assessment 2022-04-08

Damage Mechanisms and Life Assessment of High Temperature Components 1989

NASA Technical Memorandum 1979

Workplace Monitoring Procedures Manual 1985

Carbon-Neutral Fuels and Energy Carriers 2016-04-19

Title List of Documents Made Publicly Available 1982

Assessment of Geothermal Resources of the United States, 1975 1975

Spatial Modeling and Assessment of Urban Form 2017-05-08

Life Cycle Assessment: New Developments And Multi-disciplinary Applications 2022-01-19

A Technology Assessment of Geothermal Energy Resource Development 1975

Issues in Environmental Law, Policy, and Planning: 2011 Edition 2012-01-09

Ocular Surface Disease: Cornea, Conjunctiva and Tear Film E-Book 2013-06-24

Handbook of Standards and Guidelines in Human Factors and Ergonomics, Second Edition 2021-06-28

Elevated Temperature Design and Analysis, Nonlinear Analysis, and Plastic Components--2004 2004

Solar Energy Update 1979

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