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KEY=ENERGY - GILLIAN DESTINEY

Energy Sustainability Through Green Energy Springer This book shares the latest developments and advances in materials and processes involved in the energy generation, transmission, distribution and storage. Chapters are written by researchers in the energy and materials field. Topics include, but are not limited to, energy from biomass, bio-gas and bio-fuels; solar, wind, geothermal, hydro power, wave energy; energy-transmission, distribution and storage; energy-efficient lighting buildings; energy sustainability; hydrogen and fuel cells; energy policy for new and renewable energy technologies and education for sustainable energy development. **Encyclopedia of Sustainable Technologies** Elsevier Encyclopedia of Sustainable Technologies provides an authoritative assessment of the sustainable technologies that are currently available or in development. Sustainable technology includes the scientific understanding, development and application of a wide range of technologies and processes and their environmental implications. Systems and lifecycle analyses of energy systems, environmental management, agriculture, manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes. In addition, the development of clean processes through green chemistry and engineering techniques are also described. The book is the first multi-volume reference work to employ both Life Cycle Analysis (LCA) and Triple Bottom Line (TBL) approaches to assessing the wide range of technologies available and their impact upon the world. Both approaches are long established and widely recognized, playing a key role in the organizing principles of this valuable work. Provides readers with a one-stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field, offering comprehensive coverage of the field and a consistent, high-quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies **Risk Management of Non-Renewable Energy Systems** Springer This book describes the basic concepts of risk and reliability with detailed descriptions of the different levels of probabilistic safety assessment of nuclear power plants (both internal and external). The book also maximizes readers insights into time dependent risk analysis through several case studies, whilst risk management with respect to non renewable energy sources is also explained. With several advanced reactors utilizing the concept of passive systems, the reliability estimation of these systems are explained in detail with the book providing a reliability estimation of components through mechanistic model approach. This book is useful for advanced undergraduate and post graduate students in nuclear engineering, aerospace engineering, industrial engineering, reliability and safety engineering, systems engineering and applied probability and statistics. This book is also suitable for one-semester graduate courses on risk management of non renewable energy systems in all conventional engineering branches like civil, mechanical, chemical, electrical and electronics as well as computer science. It will also be a valuable reference for practicing engineers, managers and researchers involved in reliability and safety activities of complex engineering systems. **Solar Thermal Energy Storage System using phase change material for uninterrupted on-farm agricultural processing and value addition** kassel university press GmbH Thermal energy storage technologies are gaining attention nowadays for uninterrupted supply of solar power in off-sunshine hours. An indigenized solar phase change material (PCM) system was developed and performance evaluated in the current study to efficiently store solar thermal power using a latent heat storage approach, which can be utilized in any subsequent decentralized food processing application. A 2.5 m² laying Scheffler reflector is used to precisely focus the incoming direct normal irradiance (DNI) on a casted aluminum heat receiver (220 mm diameter) from where this concentrated heat energy is absorbed and conducted to the PCM unit by the flow of thermal oil (Fragoltherm-32 thermo-oil). During the circulation around PCM pipes inside the PCM unit, thermal oil discharges heat energy to the PCM, which undergoes change of phase from solid to liquid. Computational fluid dynamics (CFD) analysis of the PCM unit were also performed according to the actual boundary conditions, which gave satisfactory results in terms of temperature and velocity distribution. With an average DNI of 781 W/m², the highest temperature of the receiver surface during the trials was observed at about 155 C that produces thermal oil at 110°C inside the receiver and around 48°C of PCM in the PCM unit. The heat energy losses per unit time (W) due to the lack of reflectivity from the Scheffler reflector, out-of-focus radiations at the targeted area, absorptivity of heat receiver, piping system losses, and cylinder losses (in the form of conduction, convection, and radiations using 50 mm insulation thickness) were found to be 110 W (10 %), 99 W (9 %), 89 W (8 %), 128 W (12 %), 161 W (15 %), and 89 W (8 %), respectively. These findings of CFD analysis and mathematical modeling were also consistent with real-time data, which was logged through an online Control and Monitoring Interface portal. The final energy available to the PCM was 414W with an overall system efficiency of 38 %, which can be improved by decreasing thermal losses of the system and using other PCM materials. **Grid-Connected Photovoltaic Power Generation Technologies, Engineering Economics, and Risk Management** Cambridge University Press Covering technical design and construction aspects as well as financial analysis and risk assessment, this professional reference work provides a comprehensive overview of solar power technology. Whether or not you have a technology background, this essential guide will help you to understand the design, construction, financial analysis, and risk assessment of solar power technology. The first two chapters present an uncomplicated overview of solar power technology physics, solar cell technology, applications, and equipment. In subsequent chapters, readers are introduced to fundamental econometric analysis in such a way that will allow anyone, whether or not they have a background in finance, to become familiar with the fundamental costing and financing of large scale solar power programs. This book is essential reading for anyone involved with solar power project development, and is suitable for both graduate students and professionals. **Solar Energy Fundamentals and Applications Image Processing in Renewable: Energy Resources Opportunities and Challenges** Bentham Science Publishers This book is a compilation of innovative work on image processing applications for renewable energy systems. The chapters in the book describe the use of neural networks in multi-direction dynamic, topographical data frameworks which are designed to account for the distinctive contemporary issues faced when managing environmentally friendly power generation systems. The topics covered include uncertainty analysis methods, computing technologies, automated control systems, performance analysis, riverfront analysis through image processing and solar power estimation methods, to name a few. The information is also complemented with a review of problems in the electric power sector in India. This book is beneficial for professionals and researchers who work on hybrid techniques of GIS, remote sensing, image processing and the implementation of these techniques for utilizing renewable energy resources. Engineers who work on advanced algorithms for renewable energy applications will also get an updated perspective about relevant innovations in this industrial sector. **Solar Drying Technology Concept, Design, Testing, Modeling, Economics, and Environment** Springer This book offers a comprehensive reference guide to the latest developments and advances in solar drying technology, covering the concept, design, testing, modeling, and economics of solar drying technologies, as well as their impact on the environment. The respective chapters are based on the latest studies conducted by reputed international researchers in the fields of solar energy and solar drying. Offering a perfect blend of research and practice explained in a simple manner, the book represents a valuable resource for researchers, students, professionals, and policymakers working in the field of solar drying and related agricultural applications. **Solar Thermal Energy Storage** Springer Science & Business Media Energy Storage not only plays an important role in conserving the energy but also improves the performance and reliability of a wide range of energy systems. Energy storage leads to saving of premium fuels and makes the system more cost effective by reducing the wastage of energy. In most systems there is a mismatch between the energy supply and energy demand. The energy storage can even out this imbalance and thereby help in savings of capital costs. Energy storage is all the more important where the energy source is intermittent such as Solar Energy. The use of intermittent energy sources is likely to grow. If more and more solar energy is to be used for domestic and industrial applications then energy storage is very crucial. If no storage is used in solar energy systems then the major part of the energy demand will be met by the back-up or auxiliary energy and therefore the so called annual solar load fraction will be very low. In case of solar energy, both short term and long term energy storage systems can be used which can adjust the phase difference between solar energy supply and energy demand and can match seasonal demands to the solar availability respectively. Thermal energy storage can lead to capital cost savings, fuel savings, and fuel substitution in many application areas. Developing an optimum thermal storage system is as important an area of research as developing an alternative source of energy. **Solar Energy: Engineering of Solar Energy Systems** Trans Tech Publications Ltd The main advantages of solar energy are inexhaustibility and wide accessibility, as well as the relative environmental friendliness of its transformation into other forms of energy. The widespread use of solar energy requires the creation of functionally complete systems which convert solar energy into an element of a given technological process. The collection [Engineering of Solar Energy Systems] consists of papers published by Trans Tech Publications Inc. from 2010 to 2014 inclusive and covers a wide range of advanced achievements in the field of creating and designing systems for technological use of solar energy. The compiled scientific papers are presented in eight chapters: Chapter 1: Solar Systems for Heating, Cooling and Ventilation Chapter 2: Solar Energy in Environmental Treatment and Water Desalination Chapter 3: Solar Hydrogen Production Chapter 4: Systems for Electricity Supply Based on Solar Energy Chapter 5: Design of Components and Equipment for Solar Systems Chapter 6: Mechatronics, Control and Automation in Solar Energetics Chapter 7: Integration of Solar Technologies in the Architecture of Buildings Chapter 8: Engineering Management in Solar Energetics, which cover many aspects of scientific and engineering activities. **Solar Energy Fundamentals and Applications** Tata McGraw-Hill Education **Principles of Solar Engineering, Second Edition** CRC Press This second edition of Principles of Solar Engineering covers the latest developments in a broad range of topics of interest to students and professionals interested in solar energy applications. With the scientific fundamentals included, the book covers important areas such as heating and cooling, passive solar applications, detoxification and biomass energy conversion. This comprehensive textbook provides examples of methods of solar engineering from around the world and includes examples, solutions and data applicable to international solar energy issues. A solutions manual is available to qualified instructors. **Recent Advances in Mechanical Engineering Select Proceedings of RAME 2020** Springer Nature This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, tribology and surface engineering, heating and ventilation, air conditioning system, industrial engineering, IC engines, turbomachinery and alternative fuels, machinability and formability of materials, mechanisms and machines, metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics, thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. **Index to IEEE Publications Issues for 1973-** cover the entire IEEE technical literature. **Supplement to Mulla's Code of Civil Procedure (Act V of 1908), Fourteenth Edition in Three Volumes The Difficult Airway An Atlas of Tools and Techniques for Clinical Management** Springer Science & Business Media The Difficult Airway provides a comprehensive textual and visual coverage of how to deal with patients who have expected or unexpected difficult airways. The text begins with a description of the incidence and importance of the difficult airway and then describes the ASA Difficult Airway Algorithm created to facilitate the management of "difficult airways." The majority of the book features a comprehensive step-by-step approach to the rescue techniques listed as part of the ASA Algorithm. Noted experts in each of the techniques have been recruited by the book editors to present the information. Figures throughout the book illustrate important points and procedures. This is a wonderful resource for professionals in the health care field including anesthesiologists, intensive care physicians, emergency room physicians, nurses, and out-of-hospital first responders. **Data Science and Analytics 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, Gurugram, India, November 15-16, 2019, Revised Selected Papers, Part II** Springer This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics. **Science Citation Index Vols. for 1964-** have guides and journal lists. **Cooking with the Sun**

Morning Sun Press Briefly traces the history of solar cooking, shows how to make a solar oven and a solar hot plate, and provides recipes for vegetables, casseroles, poultry, fish, meat, breads, and desserts

Toxicological Profile for Beryllium Guidelines for the Management of Snakebites World Health Organization Snakebites are well-known medical emergencies in many parts of the world, especially in rural areas. Agricultural workers and children are most affected. The incidence of snakebite mortality is particularly high in South-East Asia. Rational use of snake anti-venom can substantially reduce mortality and morbidity due to snake bites. These guidelines are a revised and updated version of those published in 2011. The geographical coverage extends from India in the west to DPR Korea and Indonesia in the east, Nepal and Bhutan in the north, and to Sri Lanka and Indonesia in the south and south-east. Snakes inhabiting the Indonesian islands east of Wallace's line (West Papua and Maluku Islands) are part of the Australasian elapid fauna, differing from those west of this line. This publication passes on a digest of available knowledge about all clinical aspects of snake-bite to medically trained personnel, including medical doctors, nurses, dispensers and community health workers. They will provide sufficient practical information to allow medically trained personnel to assess and treat patients with snake-bites at different levels of the health service.

Greene's Protective Groups in Organic Synthesis John Wiley & Sons **Advances in Communication, Devices and Networking Proceedings of ICCDN 2018** Springer The book covers recent trends in the field of devices, wireless communication and networking. It presents the outcomes of the International Conference in Communication, Devices and Networking (ICCDN 2018), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India on 2-3 June, 2018. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on addressing real-world problems in the field of electronics, communication, devices and networking.

Textbook of Diabetes John Wiley & Sons Now in its fifth edition, the Textbook of Diabetes has established itself as the modern, well-illustrated, international guide to diabetes. Sensibly organized and easy to navigate, with exceptional illustrations, the Textbook hosts an unrivalled blend of clinical and scientific content. Highly-experienced editors from across the globe assemble an outstanding set of international contributors who provide insight on new developments in diabetes care and information on the latest treatment modalities used around the world. The fifth edition features an array of brand new chapters, on topics including: Ischaemic Heart Disease Glucagon in Islet Regulation Microbiome and Diabetes Diabetes and Non-Alcoholic Fatty Liver Disease Diabetes and Cancer End of Life Care in Diabetes as well as a new section on Psychosocial aspects of diabetes. In addition, all existing chapters are fully revised with the very latest developments, including the most recent guidelines from the ADA, EASD, DUK and NICE. Includes free access to the Wiley Digital Edition providing search across the book, the full reference list with web links, illustrations and photographs, and post-publication updates Via the companion website, readers can access a host of additional online materials such as: 200 interactive MCQ's to allow readers to self-assess their clinical knowledge every figure from the book, available to download into presentations fully searchable chapter pdfs Once again, Textbook of Diabetes provides endocrinologists and diabetologists with a fresh, comprehensive and multi-media clinical resource to consult time and time again.

Microbial Metatranscriptomics Belowground Springer Nature The book emphasizes role of functional microbes in soil to improve fertility and plant health in agro-ecosystem. In this compendium main emphasis is on occurrence and distribution of microbial communities, In situ active microbial quorum in rhizosphere, metatranscriptomics for microflora- and fauna, and functional diversity in rhizosphere. The book also highlights the importance of PGPRs in rhizosphere, root endotrophic microbes, functional niche under biotic stress, functional niche under abiotic stress, functional root derived signals, as well as functional microbe derived signals. Approaches deployed in metatranscriptomics, and molecular Tools used in rhizosphere are also discussed in detail. The book presents content is useful for students, academicians, researchers working on soil rhizosphere and as a policy document on sustenance of agriculture.

Textbook of Neurointensive Care Springer Science & Business Media This updated and refined new edition is the only book to provide a comprehensive approach to the intensive care of neurologically injured patients from the emergency room and ICU through the operating room and post-surgical period. It reviews neuroanatomy, neuroradiology, and neurophysiology, examines the neurological problems most frequently seen in intensive care, and describes the various types of neurosurgery. General issues are discussed, such as cardiac care, fluids and electrolytes, nutrition, and monitoring as well as more specific conditions and complications including elevated intracranial pressure, seizures, and altered mental states.

Boronic Acids Preparation, Applications in Organic Synthesis and Medicine John Wiley & Sons For the first time, the whole field of organoboronic acids is presented in one comprehensive handbook. Professor Dennis Hall, a rising star within the community, covers all aspects of this important substance class, including applications in chemistry, biology and medicine. Starting with an introduction to the structure, properties, and preparation of boronic acid derivatives, together with an overview of their reactions and applications, the book goes on to look at metal-catalyzed borylation of alkanes and arenes, coupling reactions and rhodium-catalyzed additions of boronic acids to alkenes and carbonyl compounds. There follows chapters on copper-promoted C-O and C-N cross-coupling of boronic acids, recent applications in organic synthesis, as well as alpha-haloalkylboronic esters in asymmetric synthesis. Later sections deal with cycloadditions, organoboronic acids, oxazaborolidines as asymmetric inducers, and boronic acid based receptors and sensors. The whole is rounded off with experimental procedures, making this invaluable reading for organic, catalytic and medicinal chemists, as well as those working in organometallics.

Microorganisms in Environmental Management Microbes and Environment Springer Science & Business Media Microbes and their biosynthetic capabilities have been invaluable in finding solutions for several intractable problems mankind has encountered in maintaining the quality of the environment. They have, for example, been used to positive effect in human and animal health, genetic engineering, environmental protection, and municipal and industrial waste treatment. Microorganisms have enabled feasible and cost-effective responses which would have been impossible via straightforward chemical or physical engineering methods. Microbial technologies have of late been applied to a range of environmental problems, with considerable success. This survey of recent scientific progress in usefully applying microbes to both environmental management and biotechnology is informed by acknowledgement of the polluting effects on the world around us of soil erosion, the unwanted migration of sediments, chemical fertilizers and pesticides, and the improper treatment of human and animal wastes. These harmful phenomena have resulted in serious environmental and social problems around the world, problems which require us to look for solutions elsewhere than in established physical and chemical technologies. Often the answer lies in hybrid applications in which microbial methods are combined with physical and chemical ones. When we remember that these highly effective microorganisms, cultured for a variety of applications, are but a tiny fraction of those to be found in the world around us, we realize the vastness of the untapped and beneficial potential of microorganisms. At present, comprehending the diversity of hitherto uncultured microbes involves the application of metagenomics, with several novel microbial species having been discovered using culture-independent approaches. Edited by recognized leaders in the field, this penetrating assessment of our progress to date in deploying microorganisms to the advantage of environmental management and biotechnology will be widely welcomed.

Solar Water Heating Systems Proceedings of the Workshop on Solar Water Heating Systems New Delhi, India 6-10 May, 1985 Springer Science & Business Media H.P. Garg Centre of Energy Studies Indian Institute of Technology Hauz Khas, New Delhi 110 016 India Heating of water using solar energy is not new and by using a little science and technology in it, the solar energy can be utilized more effectively and economically for heating the water both for domestic and industrial applications. Solar Water Heaters are popular for the last three decades in countries like USA, Australia, Israel, Japan, India. This is the only solar energy application which is commercially, technically and economically viable and has been studied for more than 30 years in many countries. Technical advances in solar water heating have been very rapid in the last 30 years. These are becoming popular not only for domestic use but for large establishments like hostels, hotels, hospitals, industries such as Textile, Paper and Food Processing and even in heating of swimming pools in winter. In few instances the cost of solar water heating systems may be higher than those operated by electricity, gas or other fuel but over a period of time this is more than recovered by the savings in the cost of operations and maintenance.

Intelligent Manufacturing and Energy Sustainability Proceedings of ICIMES 2019 Springer Nature This book includes selected, high-quality papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2019) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad, India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability.

Research Methodology Methods and Techniques New Age International About the Book: This second edition has been thoroughly revised and updated and efforts have been made to enhance the usefulness of the book. In this edition a new chapter The Computer: Its Role in Research have been added keeping in view of the fact that **Advances in Mechanical Engineering Select Proceedings of ICAME 2020** Springer Nature 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 Organic Chemistry Part A: Structure and Mechanisms Springer Science & Business Media The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

IR Playbook A Comprehensive Introduction to Interventional Radiology Springer This textbook offers a comprehensive guide to interventional radiology (IR) for medical students, residents, nurse practitioners, physician assistants, and fellows. IR is constantly evolving to meet the growing demands of patient care by applying cutting-edge technology to minimally invasive image-guided procedures. A dynamic specialty, interventional radiology has gained significant traction and interest in recent years, with combined IR/DR residencies rising to meet the increasing demand. This book addresses this growing need for a reference in IR, allowing students to gain a solid foundation to prepare them for their careers. The book is divided into two main sections, with many images and key point boxes throughout that offer high-yield pearls along with the specific How To's necessary for practice. The first section is designed to give readers an introduction to IR, including radiation safety, commonly used devices, patient care, and anatomy. The second portion divides into sections covering major body areas, diseases, conditions, and interventions. These chapters cover procedures including pathophysiology, indications for treatment, as well as alternative treatments before delving into interventional therapy. IR Playbook gives medical students, residents, and trainees a full perspective of interventional radiology.

Human Interaction, Emerging Technologies and Future Applications III Proceedings of the 3rd International Conference on Human Interaction and Emerging Technologies: Future Applications (IHET 2020), August 27-29, 2020, Paris, France Springer Nature This book reports on research and developments in human-technology interaction. A special emphasis is given to human-computer interaction, and its implementation for a wide range of purposes such as healthcare, aerospace, telecommunication, and education, among others. The human aspects are analyzed in detail. Timely studies on human-centered design, wearable technologies, social and affective computing, augmented, virtual and mixed reality simulation, human rehabilitation and biomechanics represent the core of the book. Emerging technology applications in business, security, and infrastructure are also critically examined, thus offering a timely, scientifically-grounded, but also professionally-oriented snapshot of the current state of the field. The book is based on contributions presented at the 3rd International Conference on Human Interaction and Emerging Technologies: Future Applications, IHET 2020, held on August 27-29, 2020. It offers a timely survey and a practice-oriented reference guide to researchers and professionals dealing with design and/or management of the new generation of service systems.

Proceedings of the 1st International Conference on Sustainable Waste Management through Design IC_SWMD 2018 Springer This book describes the latest advances, innovations and applications in the field of waste management and environmental geomechanics as presented by leading researchers, engineers and practitioners at the International Conference on Sustainable Waste Management through Design (IC_SWMD), held in Ludhiana (Punjab), India on November 2-3, 2018. Providing a unique overview of new directions, and opportunities for sustainable and resilient design approaches to protect infrastructure and the environment, it discusses diverse topics related to civil engineering and construction aspects of the resource management cycle, from the minimization of waste, through the eco-friendly re-use and processing of waste materials, the management and disposal of residual wastes, to water treatments and technologies. It also encompasses strategies for reducing construction waste through better design, improved recovery, re-use, more efficient resource management and the performance of materials recovered from wastes. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different waste management specialists.

Proceedings of International Conference on Intelligent Computing, Information and Control Systems ICICCS 2020 Springer Nature This book is a collection of papers presented at the International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2020). It encompasses various research works that help to develop and advance the next-generation intelligent computing and control systems. The book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book is pragmatic for researchers, academicians and students dealing with mathematically intransigent problems.

SOLAR ENERGY. New section on Wind Energy. Coverage on Solar thermal-electric power, Scheffler cooker and Spherical bowl. Applications of Phase change materials and Telecommunication Sheds described. Enhanced coverage on Solar

Cells. Discussion on Bio-diesel, and up. **Data Analytics and Management Proceedings of ICDAM Springer Nature** This book includes original unpublished contributions presented at the International Conference on Data Analytics and Management (ICDAM 2020), held at Jan Wyzykowski University, Poland, during June 2020. The book covers the topics in data analytics, data management, big data, computational intelligence, and communication networks. The book presents innovative work by leading academics, researchers, and experts from industry which is useful for young researchers and students. **Data Science and Analytics 4th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2017, Gurgaon, India, October 13-14, 2017, Revised Selected Papers Springer** This book constitutes the refereed proceedings of the 4th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2017, held in Gurgaon, India, in October 2017. The 66 revised full papers presented were carefully reviewed and selected from 329 submissions. The papers are organized in topical sections on big data analysis, data centric programming, next generation computing, social and web analytics, security in data science analytics.