Case Study On Solar Street Lights

Communications, Signal Processing, and Systems-Qilian Liang 2019-06-14 This book brings together papers from the 2018 International Conference on Communications, Signal Processing, and Systems, which was held in Dalian, China on July 14–16, 2018. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications, signal processing and systems. It is aimed at undergraduate and graduate electrical engineering, computer science and mathematics students, researchers and engineers from academia and industry as well as government employees.

Sustainable Construction-Sandy Halliday 2008 A pioneering 'How To' guide on the pratical implementation of sustainable construction techniques.

Case Studies in Retrofitting Suburbia-June Williamson 2021-01-05 A brand-new collection of 32 case studies that further demonstrate the retrofitting of suburbia This amply-illustrated book, second in a series, documents how defunct shopping malls, parking lots, and the past century’s other obsolete suburban development patterns are being retrofitted to address current urgent challenges they weren’t designed for: improving public health, increasing resilience in the face of climate change, leveraging social capital for equity, supporting an aging society, competing for jobs, and disrupting automobile dependence. Case Studies in Retrofitting Suburbia: Urban Design Strategies for Urgent Challenges provides summaries, data, and references on how these challenges manifest in suburbia and discussion of successful urban design strategies to address them in Part I. Part II documents how innovative design strategies are implemented in a range of northern American contexts and market conditions. From modest interventions with big ripple effects to ambitious do-overs, examples of redevelopment, reinhabitation, and regreening of changing suburban places from coast to coast are described in depth in 32 brand new case studies. Written by the authors of the highly influential Retrofitting Suburbia: Urban Design Solutions for Redesigning Suburbs Demonstrates changes that can and already have been realized in suburbia by focusing on case studies of retrofitted suburban places Illustrated in full-color with photos, maps, plans, and diagrams Full of replicable lessons and creative responses to ongoing problems and potentials with conventional suburban form, Case Studies in Retrofitting Suburbia: Urban Design Strategies for Urgent Challenges is an important book for students and professionals involved in urban design, architecture, landscape architecture, urban planning, development, civil engineering, public health, public policy, and governance. Most of all, it is intended as a useful guide for anyone who seeks to inspire revitalization, justice, and shared prosperity in places they know and care about.

Applications of Artificial Intelligence and Machine Learning-Ankur Choudhary 2021 The book presents a collection of peer-reviewed articles from the International Conference on Advances and Applications of Artificial Intelligence and Machine Learning - ICAAAIML 2020. The book covers research in the areas of artificial intelligence, machine learning, and deep learning applications in healthcare, agriculture, business and security. This volume contains research papers from academicians, researchers as well as students. There are also papers on core concepts of computer networks, intelligent system design and deployment, real-time systems, wireless sensor network, sensors and sensor nodes, software engineering, and image processing. This book will be a valuable resource for students, academics and practitioners in industry working on AI applications.

Designing with Solar Power-Deo Prasad 2014-04-23 Designing with Solar Power is the result of international collaborative research and development work carried out within the framework of the International Energy Agency's Photovoltaic Power Systems Programme (PVPS) and performed within its Task 7 on 'Photovoltaic power systems in the built environment'. Each chapter of this precisely detailed and informative book has been prepared by an international expert in a specific area related to the development, use and application of building-integrated photovoltaics (BiPV). Chapters not only cover the basics of solar power and electrical concepts, but also investigate the ways in which photovoltaics can be integrated into the design and creation of buildings equipped for the demands of the 21st century. The potential for BiPV, in both buildings and other structures, is explored together with broader issues such as market deployment, and international marketing and government strategies. In addition, more than 20 contemporary international case studies describe in detail how building-integrated photovoltaics have been applied to new and existing buildings, and discuss the architectural and technical quality, and the success of various strategies. Packed with photographs and illustrations, this book is an invaluable companion for architects, builders, designers, engineers, students and all involved with the exciting possibilities of building-integrated photovoltaics.

Designed for Habitat-David Hinson 2013-05-07 If you're looking for ways to give back to your community, then this book, the first to profile thirteen projects designed and built by architects and Habitat for Humanity, will help. Detailed plans, sections, and photographs show you how these projects came about, the strategies used by each team to approach the design and construction process, and the obstacles they overcame to realize a successful outcome. The lessons and insights, presented here will aid you, whether you're an architect, architecture student, Habitat affiliate leader, or an affordable housing advocate. Located all across the United States, these projects represent the full spectrum of Habitat for Humanity affiliates, from large urban affiliates to small rural programs. These cases illustrate a broad range of innovative approaches to energy performance, alternative construction strategies, and responses to site context. And each house demonstrates that design quality need not fall victim to the rigorous imperatives of cost, delivery, and financing.

Residential Solar Heating Collectors- 1996

Applications of Artificial Intelligence in Engineering-Xiao-Zhi Gao

Sustainable Energy-D. Elliott 2007-07-31 In this timely book, leading authors explore the technologies that might help us to develop a sustainable energy future, emphasising renewable energy and the political and economic context needed for them to prosper. This collection makes hard-headed assessments of what is possible and what is not.

Encyclopedia of Sustainable Technologies-Martin Abraham 2017-07-04 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

Building Drawing with an integrated approach to Built Environment (6th Edition)-SY Patki 2020-04-27 Built Environment means human-made environment for Livelihood, Living, and Life, i.e. Livability of human beings with contentment. History throws light on the development of houses, buildings, villages, cities and mega cities along with many other amenities as per necessity and available technology. Future challenges related to the creation of built environment for human beings are now expected for the population of 8.6 billion in the year 2030, 9.2 billion in the year 2050 and 11.2 billion in the year 2100. These challenges include limited resources of land, water, air, food, jobs and shelters. Hence, we need Sustainable, Green, Smart villages and cities created by Urban Planners, Architects, Engineers and many other related consultants with the support of governing authorities. This revised edition of the book on Building Drawing, 6th Edition deals with the subject with an approach to build Sustainable, Green, and Smart Cities for Welfare of all. Highlights: # A new chapter on City Planning for the Future to motivate new architects and civil engineers to choose career in Urban Planning and Designing. # Upgraded chapters 1 and 2 to discuss sustainable development and designing of Smart Cities in detail. # A thorough discussion on the methods of preparing various types of drawings as per the Indian Standard specifications . # Latest case studies and quotations from well-known thinkers, architects and professionals to inspire learners to know more about the multidisciplinary subject, Built Environment . # Reading Exercises and Project Works to enhance practical skills of learners through subject and self-learning techniques

Light-Emitting Diodes and Photodetectors-Maurizio Casalino 2021-09-29 This book provides a detailed overview of the most recent advances in the fascinating world of light-emitting diodes (LEDs), organic light-emitting diodes (OLEDs), and photodetectors (PDs). Chapters in Section 1 discuss the different types and designs of LEDs/OLEDs and their use in light output, color rendering, and more. Chapters in Section 2 examine innovative structures, emerging materials, and physical effects of PDs. This book is a useful resource for students and scientists working in the field of photonics and advanced technologies.

Innovations and Interdisciplinary Solutions for Underserved Areas-Cheikh M.F. Kebe 2018-08-29 This book constitutes the refereed post-conference proceedings of the Second International Conference on Innovations and Interdisciplinary Solutions for Underserved Areas, InterSol 2018, and the 7th Collogue National sur la Recherche en Informatique et ses Applications, CNRIA 2018, held in Kigali, Rwanda, in March 2018. The 23 papers presented were selected from 56 submissions and issue the following themes: papers dealing with the evolution of performances of solar systems in Africa, papers addressing the issues is public health, telecom papers studying the business model of telecommunication, math models presenting the climatic phenomenon and finally health papers dealing with medical devices that are suitable to underserved areas. The proceedings also contain 7 papers from the co-located 7th CNRIA (Collogue National sur la Recherche en Informatique et ses Applications) focusing on network architecture and security, software engineering, data management, and signal processing.

Multi-disciplinary Trends in Artificial Intelligence-Somnuk Phon-Amnuaisuk 2017-11-24 This book constitutes the refereed conference proceedings of the 11th International Conference on Multi-disciplinary Trends in Artificial Intelligence, MIWAI 2017, held in Gadong, Brunei, in November 2017. The 40 revised full papers presented were carefully reviewed and selected from 82 submissions. They are organized in the following topical sections: knowledge representation and reasoning; data mining and machine learning; deep learning and its applications; document analysis; intelligent information systems; swarm intelligence.

E Motion-Bortolotto, Susanna 2021-01-21 The aim of the EMotion project is to combine both technological aspects and respect for the territory and its history. The main axis considered in this project is the Asmara-Massawa road. The challenges of a new mobility in this part of Eritrea could be met and overcome by preserving the pre-existing historic infrastructure: an extraordinary and vulnerable cultural heritage, consisting of a unique road and a railway, crossing natural and cultural landscapes and connecting archaeological, historical-artistic and architectural sites; the road itself is a summation of artefacts and monuments to be protected and enhanced. A multidisciplinary team, including archaeologists, architects, geologists and engineers has contributed to the research. The vision of the project represents an ideal and real bridge to enhance the transferring of goods, ideas, knowledge and values and promote the connection of people.

Socio-economic and Eco-biological Dimensions in Resource use and Conservation-Niranjan Roy 2020-01-27 This book presents the outcomes of the 2017 national workshop and international conference organized by CEENR of ISEC, Bengaluru and Assam University Silchar. Addressing the threats to biodiversity and sustainable development resulting from the impacts of human induced pressures on ecosystems and global-warming-driven climate change is a major challenge. It requires increased knowledge and an enhanced information base in order to devise local policies to improve the adaptive capacity of vulnerable socio-ecological systems in developing countries. In this context, the book presents research that has the potential to benefit the environment and empower communities. It appeals to researchers investigating diverse aspects of socio-ecological-biological systems to create strategies for resource use, conservation and management to ensure sustainability.

Architecture & Sustainable Development (vol.2)-Magali Bodart 2011-07-01 This book of Proceedings presents the latest thinking and research in the rapidly evolving world of architecture and sustainable development through 255 selected papers by authors coming from over 60 countries.

25 Years on the Ground-Asian Development Bank 2015-02-01 This publication commemorates the 25 years of the opening of the Nepal resident mission, and provides an overview of how ADB's operation in Nepal has evolved over the years. ADB has provided assistance in several sectors, including agriculture and natural resources, transport and information and communication technology, energy, water and sanitation, urban development, education, finance, and governance. ADB has consistently promoted gender equality and social inclusion in development, and is putting more efforts into building institutional capacity at all levels, including local governments. Climate change mitigation measures and environmental safeguards form part of all ADB-supported projects and programs in Nepal.

An Economic Model for Passive Solar Designs in Commercial Environments-Jeanne W. Powell 1980

Recent Advances in Materials, Mechanics and Management-Sheela Evangeline 2019-05-14 These proceedings present a selection of papers presented at the 3rd International Conference on Materials Mechanics and Management 2017 (IMMM 2017), which was jointly organized by the Departments of Civil Engineering, Mechanical Engineering and Architecture of College of Engineering Trivandrum. Developments in the fields of materials, mechanics and management have paved the way for overall improvements in all aspects of human life. The quest for meeting the requirements of the rapidly increasing population has led to revolutionary construction and production technologies aiming at optimum management and use of natural resources. The objective of this conference was to bring together experts from academic institutions, industries, research organizations and professionals for sharing of knowledge, expertise and experience in the emerging trends related to Civil Engineering, Mechanical Engineering and Architecture. IMMM 2017 provided opportunities for young researchers to actively engage in research discussions, new research interests, research ethics and professional development.

Attaining Sustainable Energy Access for All-Kala Mulqueeny 2014-05-01 The energy policy of the Asian Development Bank (ADB) focuses on maximizing energy access, promoting energy efficiency and renewable energy, and promoting improved governance and capacity in the energy sector to strengthen the capacity of developing member countries to meet critical energy needs. This publication seeks to further ADB's efforts to promote knowledge sharing among stakeholders and help identify the policy, regulatory, and legal barriers to energy access; design and implement effective frameworks; and develop strategies to scale up energy access for all. This publication also seeks to serve as a reference for stakeholders and menu of options for further action.

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications-Vinit Kumar Gunjan 2020-10-17 This book gathers selected research papers presented at the International Conference on Recent Trends in Machine Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29–30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.

Consumer Briefing Summary- 1978 Provides highlights of those [DOE 'Consumer information series' monthly] briefings and DOE activities of greatest interest to energy consumers.

Comparative Life Cycle Assessment for Traditional Grid-connected High Pressure Sodium and Solar Stand-alone Led Street Light Systems-Scarlett Tannous 2017

Global Trends in Sustainable Energy Investment 2008-Rohan Boyle 2008 This report presents the financial perspective, or rsquo;dollar view', of the current state of play in sustainable energy development. The analysis in this report consists of actual data on the different types of capital fl ows and their movement over time, combined with analysis of regional and sectoral trends. This information is intended to be a strategic tool for understanding the status of the clean energy sector's development and for weighing future public and private commitments to the sector.

Small Wars, Big Data-Eli Berman 2020-07-14 How a new understanding of warfare can help the military fight today’s conflicts more effectively The way wars are fought has changed starkly over the past sixty years. International military campaigns used to play out between armies at central fronts. Today's conflicts find major powers facing rebel insurgencies deploying elusive methods, from improvised explosives to terrorist attacks. Presenting a transformative understanding of these contemporary confrontations, Small Wars, Big Data shows that a revolution in the study of conflict yields new insights into terrorism, civil wars, and foreign interventions. Modern warfare is not about struggles over territory but over people; civilians—and the information they might provide—can turn the tide at critical junctures. Drawing lessons from conflicts in

locations around the world, Small Wars, Big Data provides groundbreaking perspectives for how small wars can be better strategized and favorably won.

Case Study of the 424 West 33rd Street Apartment House-C. Stuart White 1981

Smart Cities: A Data Analytics Perspective-Mohammad Ayoub Khan 2020-12-11 This book offers practical as well as conceptual knowledge of the latest trends, tools, techniques and methodologies of data analytics in smart cities. The smart city is an advanced technological area that is capable of understanding the environment by examining the data to improve the livability. The smart cities allow different kinds of wireless sensors to gather massive amounts, full speed and a broad range of city data. The smart city has a focus on data analytics facilitated through the IoT platforms. There is a need to customize the IoT architecture and infrastructures to address needs in application of specific domains of smart cities such as transportation, traffic, health and, environment. The smart cities will provide next generation development technologies for urbanization that includes the need of environmental sustainability, personalization, mobility, optimum energy utilization, better administrative services and higher quality of life. Each chapter presents the reader with an in-depth investigation regarding the possibility of data analytics perspective in smart cities. The book presents cutting-edge and future perspectives of smart cities, where industry experts, scientists, and scholars exchange ideas and experience about surrounding frontier technologies, breakthrough and innovative solutions and applications.

NBS Building Science Series- 1974

Global Energy Market Trends-Anco S. Blazev 2021-01-07 As discussed in this text, countries with excess energy resources export these to countries that need them. This is an important function of the global energy markets, where energy sources, products and services are traded among countries and companies. While this is the primary activity in energy markets, it is only part of the entire global energy market scheme. The goal of this text is to analyze all sides of the energy markets in their physical, technological, economic, political, regulatory, environmental, financial, and legal aspects.

Sustainability in Energy and Buildings-John Littlewood 2019-10-26 This volume contains the proceedings of the 11th KES International Conference on Sustainability and Energy in Buildings 2019 (SEB19) held in Budapest, 4th -5th July 2019 organised by KES International in partnership with Cardiff Metropolitan University, Wales, UK. SEB-19 invited contributions on a range of topics related to sustainable buildings and explored innovative themes regarding sustainable energy systems. The aim of the conference was to bring together researchers, and government and industry professionals to discuss the future of energy in buildings, neighbourhoods and cities from a theoretical, practical, implementation and simulation perspective. The conference formed an exciting chance to present, interact, and learn about the latest research and practical developments on the subject. The conference attracted submissions from around the world. Submissions for the Full-Paper Track were subjected to a blind peer-review process. Only the best of these were selected for presentation at the conference and publication in these proceedings. It is intended that this volume provides a useful and informative snapshot of recent research developments in the important and vibrant area of Sustainability in Energy and Buildings.

Passive and Low Energy Architecture-Simos Yannas 2013-10-22 Passive and Low Energy Architecture contains the proceedings of the Second International PLEA Conference held in Crete, Greece, on June 28 to July 1, 1983. The book is organized into four parts as the topics of the conference. The first part brings together papers dealing with case studies of individual buildings or groups of buildings, completed or to be built, and of community planning. The case studies cover examples from 13 countries in Europe, North and Latin America, North Africa, the Middle East, and Asia. The second part contains papers on experimental work and technical developments with passive and low energy systems and components. The third section focuses on the ill-defined but crucial to designers, area of design aids. The fourth section centers on implementation and management of these energy systems, including topics of international programs, education, and training of design professionals. The book will be useful to energy conscious designers, architects, engineers, and planners in this field of interest.

Greening the Financial Sector-Doris Köhn 2011-12-08 Environmental finance, particularly energy efficiency and renewable energy (EERE) finance, can and should serve as an interface to other sub-sectors of financial sector promotion such as microfinance, housing finance or agricultural finance. For example, existing clients of financial institutions include small and medium-sized enterprises and households, and these are often suffering from high energy prices or have no access to sustainable energy supply. At the same time, these clients are vulnerable to extreme weather events, and often hit hardest by the impact of climate change. There are many other examples which show that the financial sector has an enormous potential to support “green” investments. In order to tap this potential on a sustainable basis, it is important to have a sound understanding which role financial institutions can and should play. This book provides a blend of well-founded professional and scientific perspectives on the potential of Environmental finance in developing and transition countries.

BIM in Small-Scale Sustainable Design-Francois Levy 2011-12-13 "While most books related to BIM are focused on large-scale architectural projects, this is the only book focused on BIM strategies for modest-scaled architectural projects that are sustainably designed. Specific in its examples and methods, the book serves as practical guide for architects and is intended to be a desktop companion. Other books, other than software guides, tend to treat BIM or sustainable practices separately in a high-level discussion"--

Solar Energy Conversion Systems in the Built Environment-Ion Visa 2020-01-08 This book focuses on solar energy conversion systems that can be implemented in the built environment, at building or at community level. The quest for developing a sustainable built environment asks for specific solutions to provide clean energy based on renewable sources, and solar energy is considered one of the cleanest available energy on Earth. The specific issues raised by the implementation location are discussed, including the climatic profile distorted by the buildings, the available surface on the buildings for implementation, etc. This book also discusses the seasonal and diurnal variability of the solar energy resource in parallel with the variability of the electrical and thermal energy demand in the built environment (particularly focusing on the residential buildings). Solutions are proposed to match these variabilities, including the development of energy mixes with other renewables (e.g. geothermal or biomass, for thermal energy production). Specific solutions, including case studies of systems implemented on buildings all over the world, are presented and analyzed for electrical and for thermal energy production and the main differences in the systems design are outlined. The conversion efficiency (thus the output) and the main causes of energy losses are considered in both cases. The architectural constraints are additionally considered and novel solar energy convertors with different shapes and colors are presented and discussed. The durability of the solar energy conversion systems is analyzed considering the specific issues that occur when these systems are implemented in the built environment; based on practical examples, general conclusions are formulated and specific aspects are discussed in relation to experimental results and literature data. With renewables implemented in the built environment likely to expand in the near future, this book represents welcome and timely material for all professionals and researchers that are aiming to provide efficient and feasible solutions for the sustainable built environment.

Improving Complex Systems Today-Daniel D. Frey 2011-07-09 As the main theme of Improving Complex Systems Today implies, this book is intended to provide readers with a new perspective on concurrent engineering from the standpoint of systems engineering. It can serve as a versatile tool to help readers to navigate the ever-changing state of this particular field. The primary focus of concurrent engineering was, at first, on bringing downstream information as far upstream as possible by introducing parallel processing in order to reduce time to market and to prevent errors at a later stage which would sometimes cause irrevocable damage. Up to now, numerous new concepts, methodologies and tools have been developed, but over concurrent engineering’s 20-year history the situation has changed extensively. Now, industry has to work in the global marketplace and to cope with diversifying requirements and increasing complexities. Such globalization and diversification necessitate collaboration across different fields and across national boundaries. Thus, the new concurrent engineering calls for a systems approach to gain global market competitiveness. Improving Complex Systems Today provides a new insight into concurrent engineering today.

Urban Microclimate Modelling for Comfort and Energy Studies-Massimo Palme 2021-04-08 This book discusses urban microclimate and heat-related risks in urban areas, brought on by the combination of global climate change effects and local modification of climate determined by extensive urbanization such as the ‘Urban heat island’ phenomenon. This matter is relevant to almost all urbanized areas in the world, where the increase of urban population and air temperature is expected to endanger both the overall health of the population and the energy supply for the functioning of urban systems. The book details the inter-relationship between urban morphology, microclimate and building energy performance and presents a multidisciplinary approach that brings together Urban Climatology, Engineering and Architectural knowledge to support the development of reliable models and tools for research and practice. This book is a useful tool for architects and building energy modelers, urban planners and geographers who need a practical guide to realize basic urban microclimate simulation for use in both academic research and planning practice.

Inventive Computation Technologies-S. Smys 2019-11-02 With the intriguing development of technologies in several industries, along with the advent of ubiquitous computational resources, there are now ample opportunities to develop innovative computational technologies in order to solve a wide range of issues concerning uncertainty, imprecision, and vagueness in various real-life problems. The challenge of blending modern computational techniques with traditional computing methods has inspired researchers and academics alike to focus on developing innovative computational techniques. In the near future, computational techniques may provide vital solutions by effectively using evolving technologies such as computer vision, natural language processing, deep learning, machine learning, scientific computing, and computational vision. A vast number of intelligent computational algorithms are emerging, along with increasing computational power, which has significantly expanded the potential for developing intelligent applications. These proceedings of the International Conference on Inventive Computation Technologies [ICICT 2019] cover innovative computing applications in the areas of data mining, big data processing, information management, and security.

Energy Abstracts for Policy Analysis- 1983

Urban Remote Sensing-Xiaojun X. Yang 2021-10-18 The second edition of Urban Remote Sensing is a state-of-the-art review of the latest progress in the subject. The text examines how evolving innovations in remote sensing allow to deliver the critical information on cities in a timely and cost-effective way to support various urban management activities and the scientific research on urban morphology, socio-environmental dynamics, and sustainability. Chapters are written by leading scholars from a variety of disciplines including remote sensing, GIS, geography, urban planning, environmental science, and sustainability science, with case studies predominately drawn from North America and Europe. A review of the essential and emerging research areas in urban remote sensing including sensors, techniques, and applications, especially some critical issues that are shifting the directions in urban remote sensing research. Illustrated in full color throughout, including numerous relevant case studies and extensive discussions of important concepts and cutting-edge technologies to enable clearer understanding for non-technical audiences. Urban Remote Sensing, Second Edition will be of particular interest to upper-division undergraduate and graduate students, researchers and professionals working in the fields of remote sensing, geospatial information, and urban & environmental planning.

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