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Cities' Identity Through Architecture and Arts Anna Catalani 2018-05-01 Every city has its unique and valuable identity, this identity is revealed through its physical and visual form, it is seen through the eyes of its residents and users. The city develops over time, and its identity evolves with it. Reflecting the rapid and constant changes the city is subjected to, Architecture and Arts, is the embodiment of the cultural, historical, and economical characteristics of the city. This conference was dedicated to the investigation of the different new approaches developed in Architecture and Contemporary arts. It has focused on the basis of urban life and identities. This volume provides discussions on the examples and tendencies in dealing with urban identities as well as the transformation of cities and urban cultures mentioned in terms of their form, identity, and their current art. Contemporary art, when subjected to experiments, continues to be produced in various directions, to be consumed and to put forward new ideas. Art continuously renews itself, from new materials to different means of communication, from interactive works to computer games, from new approaches to perceptual paradigms and problems of city and nature of the millennium. This is an Open Access ebook, and can be found on www.taylorfrancis.com.

Urban and Transit Planning Hocine Bougdah 2019-07-20 A volume of five parts, this book is a culmination of selected research papers from the second version of the international conferences on Urban Planning & Architectural Design for sustainable Development (UPADSD) and Urban Transit and Sustainable Networks (UTSN) of 2017 in Palermo and the first of the Resilient and Responsible Architecture and Urbanism Conference (RRAU) of 2018 in the Netherlands. This book, not only discusses environmental challenges of the world today, but also informs the reader of the new technologies, tools, and approaches used today for successful planning and development as well as new and upcoming ones. Chapters of this book provide in-depth debates on fields of environmental planning and management, transportation planning, renewable energy generation and sustainable urban land use. It addresses long-term issues as well as short-term issues of land use and transportation in different parts of the world in hopes of improving the quality of life. Topics within this book include: (1) Sustainability and the Built Environment (2) Urban and Environmental Planning (3) Sustainable Urban Land Use and Transportation (4) Energy Efficient Urban Areas & Renewable Energy Generation (5) Quality of Life & Environmental Management Systems. This book is a useful source for academics, researchers and practitioners seeking pioneering research in the field.

Eco-architecture II Geoffrey Broadbent 2008 This book contains papers presented at the second International Conference on Eco-Architecture . The original Conference was the first to be held worldwide on the subject of sustainable architecture in order to define what ECO-ARCHITECTURE actually is, i.e. "Harmonisation between Architecture and Nature." The subject has matured in the two years between conferences and the submitted papers can be categorised into Ecological and Cultural Sensitivity, Design with Nature, Resource Conservation and Building Technology, Design by Passive Systems, Case Studies, Rehabilitation and Adaptive Re-use. The affiliations of the authors whether in academia, the professions or industry indicate the very wide international scope and the interdisciplinary nature of the subject.

Lessons from Modernism Kevin Boney 2014-05-13 This valuable reference for today's green building movement examines twentieth-century modern architecture, including buildings by Le Corbusier and Oscar Niemeyer, through the lens of sustainability. The hottest topics in contemporary architectural design and architectural history—the focus on sustainability and the evaluation of the modern movement—meet in Lessons from Modernism, a partnership with The Cooper Union that explores the ways in which the straightforward functional approach of modernist design creates environmentally sensitive solutions. Lessons from Modernism provides new insights into 25 buildings by a diverse selection of architects, including Frank Lloyd Wright, Paul Rudolph, Jean Prouvé, and Arne Jacobsen, and demonstrates how these architects integrated environmental concerns into their designs. Buildings are located across the United States, Central and South America, Cuba, Japan and more—and include houses, art centers, commercial buildings, and civic buildings. Lessons from Modernism is an affordable reference work for all interested in how architecture intersects with the green movement, pairing full descriptions of all buildings with analytical essays, featuring charts of climate zones and solar movement, and concluding with a comprehensive chronology that details how environmental consciousness evolved throughout the twentieth century.

How to Design & Build Your Own House Phyllis Sperling 1987 Nearly eight hundred drawing enhance step-by-step instructions in every aspect and phase of planning and constructing one's own home.

Building Smart, Resilient and Sustainable Infrastructure in Developing Countries Innocent Musonda 2022-12-21 Building Smart, Resilient and Sustainable Infrastructure in Developing Countries contains the papers presented at the International Conference on Development and Investment in Infrastructure (DII-2022). The contributions cover a wide range of topics related to infrastructure issues on the African continent: Sustainable Infrastructure Development Smart Infrastructure and Cities Quality and Resilient Infrastructure Education, Empowerment, Gender Equity, Wellness and Development Environmental and Waste Management/Facilities & Real-Estate Management Infrastructure, Investment and Finance- Trends and Forecasts Infrastructure: Shock Events, Procurement, Project Management, Health & Safety Infrastructure: Economic, Social/Environmental Sustainability Digital Innovation and transition in the built environment Building Smart, Resilient and Sustainable Infrastructure in Developing Countries evaluates innovations, empowerment, growth and sustainable development of infrastructure development in Africa, and aims at administrators, academics, and professionals.

Climate Responsive Design Richard Hyde 2013-10-08 Climate Responsive Design provides a unique source for students and practising architects requiring guidance on climatic design. Covering theory and application it provides examples of innovative and best practice in 'responsive architecture' through case studies. The book also covers the broader topic of technology as a generator in design which will be of interest to all those involved in design and building. The book focuses on tropical climate but some of the theory can be applied to other climates; the difference in application is clearly delineated.

Proceedings of the 7th International Conference on Advances in Energy Research Manaswita Bose 2020-10-17 This book presents selected papers from the 7th International Conference on Advances in Energy Research (ICAER 2019), providing a comprehensive coverage encompassing all fields and aspects of energy in terms of generation, storage, and distribution. Themes such as optimization of energy systems, energy efficiency, economics, management, and policy, and the interlinkages between energy and environment are included. The contents of this book will be of use to researchers and policy makers alike.

Solar Energy Himanshu Tyagi 2019-10-14 This book covers challenges and opportunities related to solar-energy based systems. It covers a wide variety of topics related to solar energy, including applications-based systems such as solar thermal systems that are focused on drying, desalination, space cooling, refrigeration, and processing; recent advances in solar cells (DSSC) and photovoltaics; technologies for storage of energy (both sensible heating as well as latent heating); and the design of concentrated solar receivers. The information is presented in the context of the overall global energy utilization, and the role of solar energy has been highlighted. The contents of this book will be of interest to researchers, professionals, and policymakers alike.

Cultural Heritage in Asia and the Pacific Margaret G. H. Mac Lean 1993-08-19 This book contains the proceedings of a five-day symposium in September 1991, sponsored by the U.S. Information Agency, organized by US/ ICOMOS, and designed in consultation with the Getty Conservation Institute, that focused on conservation issues in Asia and the

Pacific, with particular attention to policies and conditions specific to the region. Two keynote papers by international experts explore legal aspects of cultural heritage protection, and management of cultural sites. Three background papers cover the legislation of the 15 nations represented, regional professional training opportunities, and tropical environmental conditions that challenge managers of sites and collections. The discussion summary includes suggestions for enhancing conservation awareness, legislative action, and policy implementation.

Diversity in Design Vibhavari Jani 2014-02-07 Diversity in Design: Perspectives from the non-Western World addresses the need for a text that encourages evaluation, appreciation, and comparison amongst diverse cultures by incorporating real-world non-Western design traditions into Western context. Each chapter represents a selected non-Western country written by native and resident experts and offers insight into that country's culture, highlighting the ways in which social and physical influences have affected the development of architecture and design. Contributors native to the featured countries offer insight into design philosophies, theories, principles and elements, symbolism, colors, patterns, and textiles from their regions.

Sun, Wind, and Light: Architectural Design Strategies Mark DeKay 2014-02-03 An updated guide to designing buildings that heat with the sun, cool with the wind, and light with the sky. This fully updated Third Edition covers principles of designing buildings that use the sun for heating, wind for cooling, and daylight for natural lighting. Using hundreds of illustrations, this book offers practical strategies that give the designer the tools they need to make energy efficient buildings. Hundreds of illustrations and practical strategies give the designer the tools they need to make energy efficient buildings. Organized to quickly guide the designer in making buildings respond to the sun, wind and light.

Urban Structure in Hot Arid Environments Mahmoud Tavassoli 2016-07-20 This essential reference guide to strategies and solutions for urban planning in hot arid environments reflects the journey toward many cities, towns and villages in Iran, which are documented and presented in the form of case studies and comparative analysis. It is the outcome of extensive research on the influence of historical, cultural and climatic factors on urban spatial forms and rural complexes in Iran's Hot Arid Zone. The environment of the Hot Arid Zone offers valuable insights into how to overcome historical difficulties, how to endure harsh climatic conditions, how to be innovative and creative in responding to problems in new ways, and how to utilize natural energy sources. Considerable attention is given to the recognition of values, current problems and the renewal of traditional fabrics, urban blocks and traditional buildings. Important aspects in both academic education and in the urban design profession include traditional urban structures and traditional approaches to using natural energy as a creative process that is continuously changing and renews itself over time – a dynamic characteristic from which we can glean many lessons for the future. This book is based on a book previously published by the author in Persian. This version is an extensively revised version.

Sustainable High Rise Buildings in Urban Zones Ali Sayigh 2016-12-08 This unique reference gathers numerous new studies examining specific, prominent high-rise buildings around the world. Each nuanced study included undertakes the following pivotal considerations: environmental impacts; safety & social acceptability; energy consumption and comfort; planning contexts within the urban zone; physical footprint and size; services and risks; and a careful assessment of advantages and challenges. Architects and engineers exploring and optimizing sustainable building practices, energy managers, municipal and private project planners, as well as students will find edification and inspiration in the analysis provided by esteemed practitioners and professors within this fascinating volume.

ITJEMAST 12(5) 2021 International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

Desert Planning Gideon Golany 1982 "This book provides technical guidance for the whole range of professionals involved in arid-zone development: planners, community builders, architects, policy makers and economists. it covers such varied fields as urban planning and architectural form, groundwater supply an desalination, environmental control, migration and social development" -- Dust jacket.

Smart and Sustainable Cities and Buildings Rob Roggema 2020-05-11 This book brings together the papers presented at the Smart and Sustainable Built Environments Conference, 2018 (SASBE).This latest research falls into two tracks: smart and sustainable design and planning cities; and the technicalities of smart and sustainable buildings. The growth of smart cities is evident, but not always linked to sustainability. This book gives an overview of the latest academic developments in increasing the smartness and sustainability of our cities and buildings. Aspects such as inclusivity, smart cities, place and space, the resilient city, urbanity and urban ecology are prominently featured in the design and planning part of the book; while energy, educational buildings, comfort, building design, construction and performance form the sub-themes of the technical part of the book. This book will appeal to urban designers, architects, urban planners, smart city designers and sustainable building experts.

Artificial Intelligence and Heuristics for Smart Energy Efficiency in Smart Cities Mustapha Hatti 2021-11-24 This book emphasizes the role of micro-grid systems and connected networks for the strategic storage of energy through the use of information and communication techniques, big data, the cloud, and meta-heuristics to support the greed for artificial intelligence techniques in data and the implementation of global strategies to meet the challenges of the city in the broad sense. The intelligent management of renewable energy in the context of the energy transition requires the use of techniques and tools based on artificial intelligence (AI) to overcome the challenges of the intermittence of resources and the cost of energy. The advent of the smart city makes an increased call for the integration of artificial intelligence and heuristics to meet the challenge of the increasing migration of populations to the city, in order to ensure food, energy, and environmental security of the citizen of the city and his well-being. This book is intended for policymakers, academics, practitioners, and students. Several real cases are exposed throughout the book to illustrate the concepts and methods of the networks and systems presented. This book proposes the development of new technological innovations—mainly ICT—the concept of “Smart City” appears as a means of achieving more efficient and sustainable cities. The overall goal of the book is to develop a comprehensive framework to help public and private stakeholders make informed decisions on smart city investment strategies and develop skills for assessment and prioritization, including resolution of difficulties with deployment and reproducibility.

Architectural Graphic Standards for Residential Construction The American Institute of Architects 2003 Publisher description

Climate Adaptability of Buildings Mitja Košir 2019-04-27 This book examines bioclimatic design with a focus on the application of climate adaptability in the design of future buildings and renovation of existing energy-efficient buildings. It addresses the challenge of how to construct and renovate buildings so that they maintain desired performance even as the climate changes in future decades. The book is divided into six chapters that guide the reader from basic concepts to discussions on specific

aspects of bioclimatic design, including: Why do we construct buildings and why do they matter? Where should we get started with bioclimatic design? The opportunities and potential held by climate for the by bioclimatic architecture and design. How and why should we design bioclimatic buildings to accommodate future climatic conditions? Climatic changes and implications for the bioclimatic design of buildings. The author presents an overview of effective bioclimatic design strategies that enable climate-adaptable buildings. He also addresses the problems of designing with climate, which are relevant for all types of building design—in particular, the implications for bioclimatic buildings that are intrinsically connected to the climate they were adapted to. The book combines representative examples, diagrams, and illustrations, and concludes each chapter by reviewing the most important findings and concepts discussed. The book offers a valuable source of information for researchers and architectural engineers, who will gain essential insights into the process of using the available tools and data to design buildings that can respond to future climate challenges, as well as a general introduction into the field of bioclimatic building design. The book will also be of interest to graduate students and architects, as it approaches bioclimatic design with a particular focus on the analytical design process for such buildings.

Heating, Cooling, Lighting Norbert Lechner 2014-10-13 Sustainable environmental control through building design Heating, Cooling, and Lighting is the industry standard text on environmental control systems with the emphasis on sustainable design. By detailing the many factors that contribute to the comfort in a building, this book helps architects minimize mechanical systems and energy usage over the life of the building by siting, building design, and landscaping to maximize natural heating, cooling, and lighting. This new fourth edition includes new information on integrated design strategies and designing for the Tropics. Resources include helpful case studies, checklists, diagrams, and a companion website featuring additional cases, an image bank, and instructor materials. Designing buildings that require less energy to heat, cool, and light means allowing the natural energy of the sun and wind to reduce the burden on the mechanical and electrical systems. Basic design decisions regarding size, orientation, and form have a great impact on the sustainability, cost, and comfort of a building. Heating, Cooling, and Lighting provides detailed guidance for each phase of a design project. Readers will: Understand the concept of sustainability as applied to energy sources Review the basic principles of thermal comfort, and the critical role of climate Learn the fundamentals of solar responsive design, including active and passive solar systems as well as photovoltaics Discover how siting, architectural design, and landscaping can reduce the requirements for mechanical and electrical systems In sustainable design, mechanical, and electrical systems should be used to only accomplish what the architect could not by the design of the building itself. With this in mind, designers require a comprehensive understanding of both the properties of energy and the human factors involved in thermal comfort. Heating, Cooling, and Lighting is the complete, industry-leading resource for designers interested in sustainable environmental control.

Architecture & Sustainable Development (vol.1) Magali Bodart 2011-07 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.

The Importance of Greenery in Sustainable Buildings Ali Sayigh 2021-07-23 This book covers the important aspects of greenery in buildings, both in the landscape and within buildings, examining how greenery improves comfort and appeal in sustainable buildings. The book is part of the World Renewable Energy Network's drive to encourage architects and builders to use greenery as much as possible in their design to reduce energy consumption and provide a pleasant appearance and pleasing aspect to their buildings. It shows and demonstrates how widespread the use of greenery is in buildings, and the books 17 chapters were chosen from 12 different countries representing a truly global look at the use and benefit of using greenery in buildings. This book is aimed at architects, building construction authorities, urban planners, and policymakers to encourage the use of greenery in their future buildings and explain why it is important to do so.

Eighth Workshop of the CIB W108. Climate Change and the Built Environment Politecnico di Milano 2009

Building in Hot and Humid Regions Napoleon Enteria 2019-04-26 This book presents an in-depth analysis covering climatic and weather conditions, house and building development history, construction methods and technologies, and environmental conditions. It provides relevant house and building information and highlights recent advances in hot and humid regions, as well as developments in other regions that are relevant to hot and humid climates. The countries in hot and humid regions, which include the tropical countries, the Middle Eastern countries around the Mediterranean, and many countries of Central Asia and Africa, are home to some of the most challenging conditions in the world in terms of house and building design and construction, and in terms of maintaining indoor thermal comfort and air quality in an energy-efficient way. The book's respective chapters, prepared by expert contributors, cover essential concepts, designs, and construction methodologies for houses and commercial buildings. As such, the book offers a valuable resource for undergraduate and graduate students in architecture and engineering, house and building designers, and building sciences researchers. Building contractors, manufacturers and distributors of building equipment and devices, and government policymakers and legislators will also benefit from the information provided in this book.

Towards Optimal Design Strategies in Hot-arid Climate Nagham Salman 2017

Exergy for A Better Environment and Improved Sustainability 1 Fethi Aloui 2018-08-04 This multi-disciplinary book presents the most recent advances in exergy, energy, and environmental issues. Volume 1 focuses on fundamentals in the field and covers current problems, future needs, and prospects in the area of energy and environment from researchers worldwide. Based on selected lectures from the Seventh International Exergy, Energy and Environmental Symposium (IEEES7-2015) and complemented by further invited contributions, this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in "energetic efficiency". Included are fundamental and historical coverage of the green transportation and sustainable mobility sectors, especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles. Furthermore, contributions on renewable and sustainable energy sources, strategies for energy production, and the carbon-free society constitute an important part of this book. Exergy for Better Environment and Sustainability, Volume 1 will appeal to researchers, students, and professionals within engineering and the renewable energy fields.

European Building Construction Illustrated Francis D. K. Ching 2014-02-10 The first European edition of Francis DK Ching's classic visual guide to the basics of building construction. For nearly four decades, the US publication Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This new European edition focuses on the construction methods most commonly used in Europe, referring largely to UK Building Regulations overlaid with British and European, while applying Francis DK Ching's clear graphic signature style. It provides a coherent and essential primer, presenting all of the basic concepts underlying building construction and equipping readers with useful guidelines for approaching any new materials or techniques they may encounter. European Building Construction Illustrated provides a comprehensive and lucid presentation of everything from foundations and floor systems to finish work. Laying out the material and structural choices available, it provides a full understanding of how these choices affect a building's form and dimensions. Complete with more than 1000 illustrations, the book moves through each of the key stages of the design process, from site selection to building components, mechanical systems and finishes. Illustrated throughout with clear and accurate drawings that effectively communicate construction processes and materials Provides an overview of the mainstream construction methods used in Europe Based around the UK regulatory framework, the book refers to European level regulations where appropriate. References leading environmental assessment methods of BREEAM and LEED, while

outlining the Passive House Standard Includes emerging construction methods driven by the sustainability agenda, such as structural insulated panels and insulating concrete formwork Features a chapter dedicated to construction in the Middle East, focusing on the Gulf States

Climate Change Mitigation and Adaptation—ZEMCH 2016 Arman Hashemi 2018-05-22 This book is a printed edition of the Special Issue "Climate Change Mitigation and Adaptation - ZEMCH 2016" that was published in Sustainability

Towards Net Zero Carbon Emissions in the Building Industry Ali Sayigh 2022-11-08 Towards Net Zero in the Building Industry looks at the contributions that the building and construction industry can (and must) make to help achieve net zero carbon emissions. The building industry accounts for close to 40% of global emissions and this book brings together a global group of contributors from 15 countries to examine ways in which the industry can help with overall CO2 reduction. Coverage includes factors such as building design strategy, materials selection, use of local materials with a low carbon imprint, renewable energy use, energy conservation, greenery and appropriate aesthetics, building size and scale, climate suitability, building functionality and comfort, material recycling, and adoption of green policies. Chapter 6 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Energy Research Abstracts 1994 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.

The Complete Passive Solar Home Book Brad Schepp 1985

Solar Energy Update 1981

ITJEMAST 11(5) 2020 International Transaction Journal of Engineering, Management, & Applied Sciences & Technologies publishes a wide spectrum of research and technical articles as well as reviews, experiments, experiences, modelings, simulations, designs, and innovations from engineering, sciences, life sciences, and related disciplines as well as interdisciplinary/cross-disciplinary/multidisciplinary subjects. Original work is required. Article submitted must not be under consideration of other publishers for publications.

Metric Handbook Pamela Buxton 2015-03-05 Significantly updated in reference to the latest construction standards and evolving building types Many chapters revised including housing, transport, offices, libraries and hotels New chapter on flood-aware design Sustainable design integrated into chapters throughout Over 100,000 copies sold to successive generations of architects and designers - this book belongs in every design studio and architecture school library The Metric Handbook is the major handbook of planning and design information for architects and architecture students. Covering basic design data for all the major building types, it is the ideal starting point for any project. For each building type, the book gives the basic design requirements and all the principal dimensional data, and succinct guidance on how to use the information and what regulations the designer needs to be aware of. As well as building types, the Metric Handbook deals with broader aspects of design such as materials, acoustics and lighting, and general design data on human dimensions and space requirements. The Metric Handbook provides an invaluable resource for solving everyday design and planning problems.

Towards Implementation of Sustainability Concepts in Developing Countries Chaham Alalouch 2021-10-11 This book focuses on sustainability concepts in architecture and urban design, environmental issues, and natural resources. Today it has become essential to reduce carbon emissions, protect habitats, and preserve the delicate ecosystems of our planet. Accordingly, sustainable development has to be improved by decreasing the consumption of non-renewable resources, in order to help nature replenish itself. Further, it highlights the efforts that have been made by architects, environmentalists, engineers, students, planners and everyone in between in order to improve sustainability in various developing communities and countries.

Eco-efficient Materials for Reducing Cooling Needs in Buildings and Construction F. Pacheco-Torgal 2020-10-05 Eco-efficient Materials for Reducing Cooling Needs in Buildings and Construction: Design, Properties and Applications provides a comprehensive review on building envelope materials and technologies for reducing cooling needs in buildings. The book offers in-depth analysis of the performance of new innovative materials and technologies used in pavements, facade and roofing materials, PCMs and chromogenic smart materials. Includes practical case study examples of their applications in building and construction. The book is an essential reference resource for researchers, architects and civil engineers, city planners, product developers, manufacturers, and other professionals working in eco-efficient cooling materials and sustainable and zero-energy building design. Offers a comprehensive review of building envelope materials and technologies for reducing cooling needs Features practical case studies, which are fundamental for building design and applications Provides in-depth analysis of performance for different materials and technologies Features brand new chapters on pavements, facade and roofing materials, PCMs and chromogenic smart materials

The National Energy Strategy United States. Congress. House. Committee on Interior and Insular Affairs. Subcommittee on Energy and the Environment 1992

Circular Design for Zero Emission Architecture and Building Practice Marwa Dabaieh 2022-12-03 Circular Design for Zero Emission Architecture and Building Practice: It is the Green Way or the Highway presents the main concepts of circular architecture and building design, focusing on emerging trends in zero-emission buildings, particularly zero- and minus- carbon practice. The book is structured around practical design solutions, including research-based passive solutions for extreme climates. It discusses passive and low carbon cooling and heating and natural ventilation, lifecycle assessment and life-cost analysis. The book presents examples and case studies from innovative low-tech to high-tech approaches, covering a wide spectrum of climate zones to show lessons learned and proof of concept. Vulnerable groups of people such as climate refugees are discussed, alongside how vernacular architecture can help introduce practical methods into low-carbon building practices. This book presents theoretical and practical coverage of circular design for zero emission architecture and building in relation to the global challenges of climate change and extreme weather. Presents key concepts of circular architecture and building design Offers practical design solutions, including solutions for extreme climates Gives practical solutions for design resilience, construction climate mitigation, adaptive behavior, building resilience and environmental impact Considers vernacular, tradition and locale-based, climate response and adaptive approaches to sustainable building and design Discusses the application of design after disasters and extreme climate events Gives practical case studies of both low- and high-tech design solutions from across climate zones

Future Trends in Education Post COVID-19 Hamid M. K. Al Naimiy 2023-09-04 This open access book presents the proceedings of the first post COVID-19 conference on Education at the University of Sharjah, United Arab Emirates, on March 14-16, 2022. The book offers state-of-the-art approaches and methodologies in education post-COVID-19. It showcases emerging technology utilization in improving the quality of education, teaching and learning. It discusses the transformation of the curriculum, such as course design and delivery, assessment, and instructional methodologies that focus on employment readiness for the ever-evolving job market. Contributions include a wide range of topics such as online education, curriculum development, artificial intelligence, academic accreditation for hybrid & online learning. Given its scope, the book is essential reading for scholars, students, policy-makers, and education practitioners interested in a better understanding of technological innovations.