

The Building Environment Active And Passive Control Systems

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Building Systems for Interior Designers - Corky Binggeli 2016-01-19
The ultimate interior designer's guide to building systems and safety Building Systems for Interior Designers, Third Edition is the single-source technical reference that every designer needs, and an ideal solution for NCIDQ exam preparation. Now in its third edition, this invaluable guide has been updated to better address the special concerns of the interior designer within the context of the entire design team. New coverage includes the latest information on sustainable design and energy conservation, expanded coverage of security and building control systems, and a new and expanded art program with over 250 new illustrations. Covering systems from HVAC to water to waste to lighting, this book explains technical building systems and engineering issues in a clear and accessible way to help interior designers communicate more effectively with architects, engineers, and contractors. Professional interior design is about much more than aesthetics and decorating, and technical knowledge is critical. Before the space is planned, the designer must consider the mechanical and electrical equipment, structural system, and building components, and how they impact the space. This book shows you how to evaluate these complex factors, and how each affects your work throughout the building. Consider how site conditions and structural systems affect interior design Design functionally for

human health and safety Factor water, electrical, and thermal systems into your design plans Examine the ways in which lighting and acoustics affect the space The comfort, safety, and ultimate success of a project depend upon your knowledge of building system and your coordination with architects and engineers. Building Systems for Interior Designers, Third Edition provides the comprehensive yet focused information you need to excel at what you do best.

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.

FPGA Algorithms and Applications for the Internet of Things - Sharma, Preeti 2020-03-30

In the research area of computer science, practitioners are constantly searching for faster platforms with pertinent results. With analytics that span environmental development to computer hardware emulation, problem-solving algorithms are in high demand. Field-Programmable Gate Array (FPGA) is a promising computing platform that can be significantly faster for some applications and can be applied to a variety of fields. FPGA Algorithms and Applications for the Internet of Things provides emerging research exploring the theoretical and practical aspects of computable algorithms and applications within robotics and electronics development. Featuring coverage on a broad range of topics such as neuroscience, bioinformatics, and artificial intelligence, this book is ideally designed for computer science specialists, researchers, professors, and students seeking current research on cognitive analytics and advanced computing.

Sustainability Principles and Practice - Margaret Robertson 2021-01-29
Sustainability Principles and Practice gives an accessible and

comprehensive overview of the interdisciplinary field of sustainability. The focus is on furnishing solutions and equipping students with both conceptual understanding and technical skills. Each chapter explores one aspect of the field, first introducing concepts and presenting issues, then supplying tools for working toward solutions. Elements of sustainability are examined piece by piece, and coverage ranges over ecosystems, social equity, environmental justice, food, energy, product life cycles, cities, and more. Techniques for management and measurement as well as case studies from around the world are provided. The 3rd edition includes greater coverage of resilience and systems thinking, an update on the Anthropocene as a formal geological epoch, the latest research from the IPCC, and a greater focus on diversity and social equity, together with new details such as sustainable consumption, textiles recycling, microplastics, and net-zero concepts. The coverage in this edition has been expanded to include issues, solutions, and new case studies from around the world, including Europe, Asia, and the Global South. Chapters include further reading and discussion questions. The book is supported by a companion website with online links, annotated bibliography, glossary, white papers, and additional case studies, together with projects, research problems, and group activities, all of which focus on real-world problem-solving of sustainability issues. This textbook is designed to be used by undergraduate college and university students in sustainability degree programs and other programs in which sustainability is taught.

Information of the Institute for Lightweight Structures -
Universität Stuttgart. Institut für Leichte Flächentragwerke 1980

Intelligent Systems in Buildings - Rand H.M. Agha 2019-10-29
Although many researchers believe that intelligent systems (IS) can improve building performance, the potential of such systems has not yet been fully recognized with regards to the traditional courtyard house (TCHT). Such research is important given the role of adding IS to TCHTs; due to the nature of intelligent systems and the priority of their needs and building considerations. As such, one must consider many

interrelated aspects that can enhance courtyard house performance in order to fulfil occupants' needs. This book identifies the key features of the traditional courtyard house, and shows that a detailed knowledge of the features and capabilities of intelligent systems is an important aspect in the decision-making process in order to enhance the performance of courtyard houses.

Energy, Environment and Green Building Materials - Ai Sheng
2015-05-29

The 2014 International Conference on Energy, Environment and Green Building Materials (EEGBM2014) was held November 28-30, 2014, in Guilin, Guangxi. EEGBM2014 provided a valuable opportunity for researchers, scholars and scientists to exchange their new ideas and application experiences face to face together, to establish business or research relat

ICACE 2019 - Mokhtar Awang 2020-02-27

This book presents selected articles from the 3rd International Conference on Architecture and Civil Engineering 2019, held in Kuala Lumpur, Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and addresses current issues in the fields of civil engineering and architecture.

Buildings for Advanced Technology - Ahmad Soueid 2015-12-30

This book deals with the design and construction of buildings for nanoscale science and engineering research. The information provided in this book is useful for designing and constructing buildings for such advanced technologies as nanotechnology, nanoelectronics and biotechnology. The book outlines the technology challenges unique to each of the building environmental challenges outlined below and provides best practices and examples of engineering approaches to address them:

- Establishing and maintaining critical environments: temperature, humidity, and pressure
- Structural vibration isolation
- Airborne vibration isolation (acoustic noise)
- Isolation of mechanical equipment-generated vibration/acoustic noise
- Cost-effective power conditioning
- Grounding facilities for low electrical interference
- Electromagnetic interference (EMI)/Radio frequency interference (RFI)

isolation • Airborne particulate contamination • Airborne organic and chemical contamination • Environment, safety and health (ESH) considerations • Flexibility strategies for nanotechnology facilities The authors are specialists and experts with knowledge and experience in the control of environmental disturbances to buildings and experimental apparatus.

Environmentally Friendly Cities - Eduardo Maldonado 2014-11-19

The 15th Passive and Low Energy Architecture (PLEA) conference considered the issues of sustainability and environmental friendliness at the city scale. Some 150 papers address the many and varied questions faced by architects and planners in reducing the impact on the environment of cities and their buildings.

Modern Construction Handbook - Andrew Watts 2018-11-19

Owing to regular revision, the Modern Construction Handbook has become a classic in advanced building construction literature, not least because of its clear structure covering the chapters "Material", "Wall", "Roof", "Structure", "Environment", and "Applications". For the fifth edition, a large part of the 3D presentations has been redrawn, all six chapters have been revised and updated. New standards have been established for this handbook, which is a basic resource for many architectural study courses, by adding more component details, new examples with a focus on sustainability and energy consumption, and a major update on finite element analysis (FEA) and computational fluid dynamics (CFD).

Northern Australia - Don Parkes 2013-09-24

Northern Australia: The Arenas of Life and Ecosystems on Half a Continent provides a geographical study of the interplay of environmental challenge and human endeavor in the vast arena of Northern Australia. This book is organized into three parts. Part A presents the contextual setting for Parts B and C. It includes a historical geographer's perspective on the ecological impact of 200 years of European settlement; a description of the use of satellite imagery; and discussion of some of the interactions among natural subsystems as they impinge on human activities (especially in the extensive rangelands).

Part B discusses some of the human ecosystems which extend over a very large geographical territory. In these ecosystems the human population is small in terms of absolute number and relative to the population of other living things. These include the tropical marine ecosystems and their growing utilization for mariculture; and rangeland ecosystems dominated by cattle and the overlapping semi-arid grasslands. Part C discusses intensive ecosystems, where the human population is dominant in number.

Rethinking Building Skins - Eugenia Gasparri 2021-12-05
Rethinking Building Skins: Transformative Technologies and Research Trajectories provides a comprehensive collection of the most relevant and forward-looking research in the field of façade design and construction today, with a focus on both product and process innovation. The book brings together the expertise, creativity, and critical thinking of more than fifty global innovators from both academia and industry, to guide the reader in translating research into practice. It identifies new opportunities for the construction sector to respond to present challenges, towards a more sustainable, efficient, connected, and safe future. Introduces the reader to the role of façades with respect to the main challenges ahead; Provides an overview of the major façade technological advancements throughout history and identifies prospective research trajectories; Includes interviews with key industry players from different backgrounds and expertise; Showcases a comprehensive range of leading research topics in the field, organised by product and process innovation; Covers major innovations across the value chain including façade design, fabrication, construction, operation and maintenance, and end-of-life; Contributes towards the definition of an international research agenda and identifies emerging market opportunities for the façade industry.

Building Control Systems - Vaughn Bradshaw 1985-03-21
An introductory non-technical text for four-year architecture students of environmental control systems. Designed as an alternative to other, more 'heavy-handed' texts, Building is more concise, less engineering-oriented, and more relevant to basic concepts in the architectural design

process and what an architect needs to understand in order to communicate and coordinate with consultants in many disciplines. Topics covered include the theoretical bases for thermal control, active and passive systems to control the thermal environment, electrical systems, plumbing systems, fire protection, noise control, and methods for making design decisions.

The Architectural Expression of Environmental Control Systems - George Baird 2003-09-02

The Architectural Expression of Environmental Control Systems examines the way project teams can approach the design and expression of both active and passive environmental control systems in a more creative way. Using seminal case studies from around the world and interviews with the architects and environmental engineers involved, the book illustrates innovative responses to client, site and user requirements, focusing upon elegant design solutions to a perennial problem. This book will inspire architects, building scientists and building services engineers to take a more creative approach to the design and expression of environmental control systems - whether active or passive, whether they influence overall building form or design detail.

Passive and Active Environmental Controls - Dean Heerwagen 2003-07

Passive and Active Environmental Controls: Informing the Schematic Designing of Buildings is written for the architecture audience. It primarily addresses how to design and construct buildings to satisfy occupants' physical and physiological needs. The text serves as an introduction to the subject of environmental controls and presents information necessary for the schematic design of buildings. It describes the various components of a particular system, developing how a system functions, how the systems components fit together and how spaces are organized to accommodate these components. The book demonstrates how each system is integrated with other building systems, such as the structural systems and the overall architecture of the building.

Design, Technology and the Development Process in the Built Environment - Tom Collier 2003-09-02

This second book in the BEST series explores the fundamental generators and contextual issues - philosophical, physical and political - that influence built environments. It draws on international examples to show how societies and cultures in different parts of the world react to similar problems. It contrasts dramatically different types of buildings and enclosures from primitive shelters to space laboratories. They show how mankind endeavours to control the environment - whatever it is.

Mechanical and Electrical Equipment for Buildings - Walter T. Grondzik
2019-10-08

The definitive guide to the design of environmental control systems for buildings—now updated in its 13th Edition *Mechanical and Electrical Equipment for Buildings* is the most widely used text on the design of environmental control systems for buildings—helping students of architecture, architectural engineering, and construction understand what they need to know about building systems and controlling a building's environment. With over 2,200 drawings and photographs, this 13th Edition covers basic theory, preliminary building design guidelines, and detailed design procedure for buildings of all sizes. It also provides information on the latest technologies, emerging design trends, and updated codes. Presented in nine parts, *Mechanical and Electrical Equipment for Buildings*, Thirteenth Edition offers readers comprehensive coverage of: environmental resources; air quality; thermal, visual, and acoustic comfort; passive heating and cooling; water design and supply; daylighting and electric lighting; liquid and solid waste; and building noise control. This book also presents the latest information on fire protection, electrical systems; and elevator and escalator systems. This Thirteenth Edition features: Over 2,200 illustrations, with 200 new photographs and illustrations All-new coverage of high-performance building design Thoroughly revised references to codes and standards: ASHRAE, IES, USGBC (LEED), Living Building Challenge, WELL Building Standard, and more Updated offering of best-in-class ancillary materials for students and instructors available via the book's companion website Architect Registration Examination® (ARE®) style study questions available in the instructor's manual and

student guide *Mechanical and Electrical Equipment for Buildings*, has been the industry standard reference that comprehensively covers all aspects of building systems for over 80 years. This Thirteenth Edition has evolved to reflect the ever-growing complexities of building design, and has maintained its relevance by allowing for the conversation to include "why" as well as "how to."

Design-Tech - Jason Alread 2014-03-21

Design-Tech is an indispensable, holistic approach to architectural technology that shows you in hundreds of drawings and tables the why as well as the how of building science, providing you with a comprehensive overview. In this expanded edition, measurements and examples are listed in both metric and imperial units to reflect the global reality of architectural practice. The authors also address digital fabrication, construction documentation, ultra-high-rise structures, and zoning codes. And there's more in-depth coverage of structural design and greater emphasis on environmental forces. Numerous case studies demonstrate real-world design implications for each topic, so that you can integrate technical material with design sensibilities. Short chapters explain each topic from first principles in easy-to-reference formats, focusing on what you need to know both at the drawing board and in future discussions with engineers, contractors, and consultants. This new edition incorporates material from continuing curricular experimentation in the SCI-TECH sequence at Iowa State University, which has been recognized with awards and funding from the American Institute of Architects, the U.S. Green Building Council, and the National Council of Architectural Registration Boards.

HCI International 2016 - Posters' Extended Abstracts - Constantine Stephanidis 2016-07-04

This is the second volume of the two-volume set (CCIS 617 and CCIS 618) that contains extended abstracts of the posters presented during the 18th International Conference on Human-Computer Interaction, HCII 2016, held in Toronto, Canada, in July 2016. The total of 1287 papers and 186 posters presented at the HCII 2016 conferences was carefully reviewed and selected from 4354 submissions. These papers address the

latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The papers included in this volume are organized in the following topical sections: web, social media and communities; gesture and motion-based interaction; expressions and emotions recognition and psychophysiological monitoring; technologies for learning and creativity; health applications; location-based and navigation applications; smart environments and the Internet of Things; design and evaluation case studies.

Research Anthology on Artificial Intelligence Applications in

Security - Management Association, Information Resources 2020-11-27

As industries are rapidly being digitalized and information is being more heavily stored and transmitted online, the security of information has become a top priority in securing the use of online networks as a safe and effective platform. With the vast and diverse potential of artificial intelligence (AI) applications, it has become easier than ever to identify cyber vulnerabilities, potential threats, and the identification of solutions to these unique problems. The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet, leading AI to be a frontrunner in the fight against malware, cyber-attacks, and various security issues. However, even with the tremendous progress AI has made within the sphere of security, it's important to understand the impacts, implications, and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security-based research. Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information. The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications, the latest tools and technologies, as well as the utilization of AI and what challenges and impacts have been discovered

along the way. This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security, safety, and privacy online. This book is ideally intended for cyber security analysts, computer engineers, IT specialists, practitioners, stakeholders, researchers, academicians, and students interested in AI applications in the realm of security research.

Environmental Issues for Architecture - David Lee Smith 2011-02-16

This primer for architects explores the basic physical principles and requirements of every aspect of passive and active controls in buildings. Avoiding needless jargon, Environmental Issues for Architecture supports an understanding of environmental systems in order to inform architectural design. With topics ranging from lighting, acoustics, thermal control, plumbing, fire protection and egress, to elevators and escalators, all of the latest technologies are supported. Designer-friendly, this rich resource gives just enough technical information for architects to design buildings that are efficient and comfortable.

Heating, Cooling, Lighting - Norbert M. Lechner 2021-09-20

The essential guide to environmental control systems in building design For over 25 years Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture has provided architects and design professionals the knowledge and tools required to design a sustainable built environment at the schematic design stage. This Fifth Edition offers cutting-edge research in the field of sustainable architecture and design and has been completely restructured based on net zero design strategies. Reflecting the latest developments in codes, standards, and rating systems for energy efficiency, Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture includes three new chapters: Retrofits: Best practices for efficient energy optimization in existing buildings Integrated Design: Strategies for synergizing passive and active design Design Tools: How to utilize the best tools to benchmark a building's sustainability and net zero potential Heating, Cooling, Lighting: Sustainable Design Strategies Towards Net Zero Architecture is a go-to resource for practicing professionals and

students in the fields of environmental systems technology or design, environmental design systems, construction technology, and sustainability technology.

The Built Environment - Wendy R. McClure 2011-09-09

This book takes a sweeping view of the ways we build things, beginning at the scale of products and interiors, to that of regions and global systems. In doing so, it answers questions on how we effect and are affected by our environment and explores how components of what we make—from products, buildings, and cities—are interrelated, and why designers and planners must consider these connections.

Green Building, Environment, Energy and Civil Engineering - Jimmy Kao 2016-11-30

This proceedings volume contains select Green Building, Materials and Civil Engineering related papers from the 2016 International Conference on Green Building, Materials and Civil Engineering (GBMCE2016) which was held in Hong Kong, P.R. China, April 17-18, 2016. This volume of proceedings aims to provide a platform for researchers, engineers, academics as well as industrial professionals from all over the world to present their research results and development activities in the fields of Energy, Environment and Civil Engineering.

The Building Environment - Vaughn Bradshaw 2010-09-29

Get the updated guide to active and passive control systems for buildings. To capitalize on today's rapidly evolving, specialized technologies, architects, designers, builders, and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building. *The Building Environment: Active and Passive Control Systems, Third Edition* helps you take advantage of design innovations and construction strategies that maximize the comfort, safety, and energy efficiency of buildings. From active HVAC systems to passive methods, lighting to on-site power generation, this updated edition explains how to strategically plan for and incorporate effective, efficient systems in today's buildings. It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the

world's environment. *The Building Environment* goes beyond the ABCs of HVAC and covers: On-site power generation, including wind turbines, solar photovoltaic cells, fuel cells, and more. Plumbing systems, fire protection, signal systems, conveying systems, and architectural acoustics. Procedures and/or formulas for performing heat loss, heat gain, and energy use calculations, determining the rate of heat flow, calculating solar energy utilization, doing load calculations, and more. Details on the latest building codes and standards references. New information on the sustainable design of building systems and energy efficiency, including new technologies. The latest thinking and data on a building's impact on the environment, indoor air quality, and "sick building syndrome." Design economics, including the payback period, life-cycle cost, comparative value analysis, and building commissioning. A practical on-the-job tool for architects, designers, builders, engineers, contractors, and other specialists, this Third Edition is also a great reference for architecture students who will lead tomorrow's design teams.

Disaster Risk Reduction for the Built Environment - Lee Boshier 2017-06-12

Disaster Risk Reduction for the Built Environment provides a multi-faceted introduction to how a wide range of risk reduction options can be mainstreamed into formal and informal construction decision making processes, so that Disaster Risk Reduction (DRR) can become part of the 'developmental DNA'. The contents highlight the positive roles that practitioners such as civil and structural engineers, urban planners and designers, and architects (to name just a few) can undertake to ensure that disaster risk is addressed when (re)developing the built environment. The book does not set out prescriptive ('context blind') solutions to complex problems because such solutions can invariably generate new problems. Instead it raises awareness, and in doing so, inspires a broad range of people to consider DRR in their work or everyday practices. This highly-illustrated text book provides a broad range of examples, case studies and thinking points that can help the reader to consider how DRR approaches might be adapted for differing

contexts.

Dictionary of Sustainability - Margaret Robertson 2017-05-12

The Dictionary of Sustainability provides clear and accurate definitions of the extensive vocabulary that has developed in this emerging and interdisciplinary field, saving considerable time from searching through the massive quantity of information of differing degrees of quality that is available through the Internet. Providing authoritative definitions of standard terms used by scholars and practitioners it provides a clear and thorough conceptual framework and ensures those delving into topics for the first time, or returning to them, can quickly find what they need. It also contains careful use of cross-references, and includes several expanded entries to provide readers with nuanced understanding of important topics. The dictionary will be essential reading for all students studying sustainability topics, as well as a handy reference for practitioners wanting to make a sustainable difference in the workplace.

High-Rise Buildings under Multi-Hazard Environment - Mingfeng Huang 2016-08-15

This book discusses performance-based seismic and wind-resistant design for high-rise building structures, with a particular focus on establishing an integrated approach for performance-based wind engineering, which is currently less advanced than seismic engineering. This book also provides a state-of-the-art review of numerous methodologies, including computational fluid dynamics (CFD), extreme value analysis, structural optimization, vibration control, pushover analysis, response spectrum analysis, modal parameter identification for the assessment of the wind-resistant and seismic performance of tall buildings in the design stage and actual tall buildings in use. Several new structural optimization methods, including the augmented optimality criteria method, have been developed and employed in the context of performance-based design. This book is a valuable resource for students, researchers and engineers in the field of civil and structural engineering.

Manual of Museum Exhibitions - Maria Piacente 2022-01-20

Drawing on years of experience, Maria Piacente details the exhibition process in a straightforward way that can be easily adapted by

institutions of any size. She and her contributing authors explore the exhibition development process in greater detail, providing the technical and practical methodologies museum professionals need today.

The Building Environment - Vaughn Bradshaw 2006-05-19

Get the updated guide to active and passive control systems for buildings. To capitalize on today's rapidly evolving, specialized technologies, architects, designers, builders, and contractors work together to plan the mechanical and electrical equipment that controls the indoor environment of a building. The Building Environment: Active and Passive Control Systems, Third Edition helps you take advantage of design innovations and construction strategies that maximize the comfort, safety, and energy efficiency of buildings. From active HVAC systems to passive methods, lighting to on-site power generation, this updated edition explains how to strategically plan for and incorporate effective, efficient systems in today's buildings. It covers the underlying thermal theories and thermodynamic principles and focuses on design that enhances the building environment and minimizes the impact on the world's environment. The Building Environment goes beyond the ABCs of HVAC and covers: On-site power generation, including wind turbines, solar photovoltaic cells, fuel cells, and more. Plumbing systems, fire protection, signal systems, conveying systems, and architectural acoustics. Procedures and/or formulas for performing heat loss, heat gain, and energy use calculations, determining the rate of heat flow, calculating solar energy utilization, doing load calculations, and more. Details on the latest building codes and standards references. New information on the sustainable design of building systems and energy efficiency, including new technologies. The latest thinking and data on a building's impact on the environment, indoor air quality, and "sick building syndrome." Design economics, including the payback period, life-cycle cost, comparative value analysis, and building commissioning. A practical on-the-job tool for architects, designers, builders, engineers, contractors, and other specialists, this Third Edition is also a great reference for architecture students who will lead tomorrow's design teams. Visit the companion Web site at www.wiley.com/go/bradshaw.

Environmentally Responsible Design - Louise Jones 2012-07-19

At last, there's an authoritative guide to help interior designers apply green- building and sustainability applications to their environments. Sustainable Interior Design expertly introduces the principles of environmentally responsible design for interior environments. This useful reference provides beginning designers and experienced professionals alike with a comprehensive survey that covers everything from theoretical approaches to current practices. It helps designers understand the environmentally responsible approach and make design decisions that are ethical and do not harm the world's environment. *Fundamentals of Building Components and Systems* - Denis Rudnev 2017-05-22

Fundamentals of Building Components and Systems: For Community Association Managers is a basic guide of structural, mechanical, and aesthetic components of a residential building. This guide is meant for managers and other support staff tasked with maintaining the physical property of a community association. The guide is designed as a base of knowledge when dealing with contractors and performing basic evaluations of the property. This publication will allow the manager or other staff to better understand and solve issues with the help of professionals, as well as better communicate issues to the Boards of Directors and residents.

Handbook of Humidity Measurement, Volume 1 - Ghenadii Korotcenkov 2018-03-15

The first volume of *The Handbook of Humidity Measurement* focuses on the review of devices based on optical principles of measurement such as optical UV, fluorescence hygrometers, optical and fiber-optic sensors of various types. Numerous methods for monitoring the atmosphere have been developed in recent years, based on measuring the absorption of electromagnetic field in different spectral ranges. These methods, covering the optical (FTIR and Lidar techniques), as well as a microwave and THz ranges are discussed in detail in this volume. The role of humidity-sensitive materials in optical and fiber-optic sensors is also detailed. This volume describes the reasons for controlling the humidity,

features of water and water vapors, and units used for humidity measurement.

Passive and Active Environmental Controls - Dean Heerwagen 2003-07

Passive and Active Environmental Controls: Informing the Schematic Designing of Buildings is written for the architecture audience. It primarily addresses how to design and construct buildings to satisfy occupants' physical and physiological needs. The text serves as an introduction to the subject of environmental controls and presents information necessary for the schematic design of buildings. It describes the various components of a particular system, developing how a system functions, how the systems components fit together and how spaces are organized to accommodate these components. The book demonstrates how each system is integrated with other building systems, such as the structural systems and the overall architecture of the building.

Information and Communication Technology for Intelligent Systems (ICTIS 2017) - Volume 2 - Suresh Chandra Satapathy 2017-08-16

This volume includes 73 papers presented at ICTIS 2017: Second International Conference on Information and Communication Technology for Intelligent Systems. The conference was held on 25th and 26th March 2017, in Ahmedabad, India and organized jointly by the Associated Chambers of Commerce and Industry of India (ASSOCHAM) Gujarat Chapter, the G R Foundation, the Association of Computer Machinery, Ahmedabad Chapter and supported by the Computer Society of India Division IV – Communication and Division V – Education and Research. The papers featured mainly focus on information and communications technology (ICT) and its applications in intelligent computing, cloud storage, data mining and software analysis. The fundamentals of various data analytics and algorithms discussed are useful to researchers in the field.

Media Hot and Cold - Nicole Starosielski 2021-11-26

In *Media Hot and Cold* Nicole Starosielski examines the cultural dimensions of temperature to theorize the ways heat and cold can be

used as a means of communication, subjugation, and control. Diving into the history of thermal media, from infrared cameras to thermostats to torture sweatboxes, Starosielski explores the many meanings and messages of temperature. During the twentieth century, heat and cold were broadcast through mass thermal media. Today, digital thermal media such as bodily air conditioners offer personalized forms of thermal communication and comfort. Although these new media promise to help mitigate the uneven effects of climate change, Starosielski shows how they can operate as a form of biopower by determining who has the ability to control their own thermal environment. In this way, thermal media can enact thermal violence in ways that reinforce racialized, colonial, gendered, and sexualized hierarchies. By outlining how the control of temperature reveals power relations, Starosielski offers a framework to better understand the dramatic transformations of hot and cold media in the twenty-first century.

Climate, Clothing, and Agriculture in Prehistory - Ian Gilligan 2019

The first book on the origin of clothes shows why climate change was

crucial - for the origin of agriculture too.

The Elements of Architecture - Scott Drake 2014-02-04

The Elements of Architecture is a clear and well structured introduction to sustainable architecture, which concentrates on general principles to make an accessible and comprehensive primer for undergraduate students. The author takes a fresh and logical approach, focusing on the way aspects of the built environment are experienced by the occupants and how that experience is interpreted in architectural design. He works through basic elements and senses (sun; heat; light; sound; air; water and fire) to explain and frame effective environmental architectural design - not only arguing that the buildings we inhabit should be viewed as extensions of our bodies that interact with and protect us from these elements, but also using this analogy to explain complex ideas in an accessible manner.

Art Book News Annual, volume 4: 2008
Art Book News Annual, volume 4: 2008 -