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Climate change is believed to be a great challenge to built environment professionals in design and management. An integrated approach in delivering a sustainable built environment is desired by the built environment professional institutions. The aim of this book is to provide an advanced understanding of the key subjects required for the design and management of modern built environments to meet carbon emission reduction targets. In Design and Management of Sustainable Built Environments, an international group of experts provide comprehensive and the most up-to-date knowledge, covering sustainable urban and building design, management and assessment. The best practice case studies of the implementation of sustainable technology and management from the BRE Innovation Park are included. Design and Management of Sustainable Built Environments will be of interest to urban and building designers, environmental engineers, and building performance assessors. It will be particularly useful as a reference book for undergraduate and postgraduate students in the built environment field. In the search for sustainable architecture, there is growing interest in the relationship between nature and design. In this vital new book, the term bioclimatic, relating to the dynamic between climate and living organisms, is applied by the authors in focusing on countries where housing requires cooling for a significant part of the year. In this context, Bioclimatic Housing covers creative, vernacular architecture to present both the theory and practice of innovative, low-energy architecture. The book interweaves the themes of social progress, technological fixes and industry transformation within a discussion of global and country trends, climate types, solutions and technologies. Prepared under the auspices of a 5-year International Energy Agency (IEA) project, and with case studies from Iran, Malaysia, Australia, Japan, Sri Lanka and Italy, this is a truly international and authoritative work, providing an essential primer for building designers, builders, developers and advanced students in architecture and engineering. Reconstructing Value prepares contemporary business leaders for the increasingly important task of developing a sustainability vision and translating it across levels in an organization. The book is based on insights gained over the past decade from research involving hundreds of practitioners, front line managers to senior executives, who have been working to integrate sustainability within their organizations. It illustrates how building capacity for managing the complex issues of sustainability requires key process skills that leaders need to develop. This book equips readers to respond to the risks and opportunities presented by global sustainability issues and reinvent new ways of doing business that will enhance organizational effectiveness while also building a more sustainable world. Each chapter includes process questions to guide reflective practice and to build the requisite leadership capabilities for turning a sustainability vision into a value-added organizational strategy. Reconstructing Value helps readers to build integrative thinking skills - such as how to engage critical, complexity, strategic and design thinking capabilities to enable organizational change - that can assist them with becoming successful sustainability champions within their organizations. The fourth edition of Content-Based Curriculum for High-

Ability Learners provides readers with a complete and up-to-date introduction to core elements of curriculum development in gifted education with implications for school-based implementation. Written by key experts in the field, this text is essential to the development of high-powered, rich, and complex curricula that treat content, process, product, and concept development considerations as equal partners in the task of educating gifted learners. Along with revised chapters, this edition contains new chapters on culturally responsive curriculum, the performing arts, robotics, and engineering design, as well as social and emotional learning. Additional material concerning talent trajectories across the lifespan accompanies a discussion of honors curriculum in higher education, rounding out this comprehensive resource. This master text is a must read for educators interested in executing effective curriculum and instructional interventions to support learning for gifted and advanced learners.

Home heating that's safe, clean, efficient, and uses 70 to 90 percent less fuel than a typical woodstove A rocket mass heater is an earthen masonry heating system which provides clean, safe and efficient warmth for your home, all while using 70-90% less fuel than a traditional woodstove. These unique and beautiful installations provide luxurious comfort year-round. In cold weather a few hours of clean, hot burning can provide 20 or more hours of steady warmth, while the unit's large thermal mass acts as a heat sink, cooling your home on sizzling summer days. Packed with hard-to-find information, The Rocket Mass Heater Builder's Guide includes: Comprehensive design, construction and installation instructions combined with detailed maintenance and troubleshooting advice Brick-by-brick layouts, diagrams, and architectural plans augmented with detailed parts drawings and photographs for clarity Relevant and up-to-date code information and standards to help you navigate the approval process with local building departments. Earthen masonry heating systems are well-suited for natural and conventional builders alike. A super-efficient, wood-burning, rocket mass heater can help you dramatically reduce your energy costs while enhancing the beauty, value and comfort of your home. bull; Learn to better leverage the significant power of UML 2.0 and the Model-Driven Architecture standard bull; The OCL helps developers produce better software by adding vital definition to their designs bull; Updated to reflect the latest version of the standard - OCL 2.0 The projects in these books present the best current work in the field of design for the aging. The buildings featured (each one has been specially selected by the AIA jury) include continuing care retirement communities, assisted living facilities as well as combined use facilities. Sustainable Design for the Built Environment marks the transition of sustainable design from a specialty service to the mainstream approach for creating a healthy and resilient built environment. This groundbreaking and transformative approach introduces sustainable design in a clear, concise, easy-to-read format. This book takes the reader deep into the foundations of sustainable design, and creates a holistic and integrative approach addressing the social, cultural, ecological, and aesthetic aspects in addition to the typical performance-driven goals. The first section of the book is themed around the origins, principles, and frameworks of sustainable design aimed at inspiring a deeper, broader, and more inclusive view of sustainability. The second section examines strategies such as biophilia and biomimicry, adaptation and resilience, health and well-being. The third section examines the application of sustainability principles from the global, urban, district, building, and human scale, illustrating how a systems thinking approach allows sustainable design to span the context of time, space, and varied perspectives. This textbook is intended to inspire a new vision for the future that unites human activity with natural processes to form a regenerative, coevolutionary model for sustainable design. By allowing the reader an insightful look into the history, motivations, and values of sustainable design, they begin to see sustainable design, not only as a way to deliver green buildings, but as a comprehensive and transformative meta-framework that is so needed in every sector of society. Supported by extensive online resources including videos and PowerPoints for each chapter, this book will be essential reading for students of sustainability and sustainable design. Despite the world's aging population, suitable clothing for the older community is a largely neglected area. This book considers the needs of the growing number of active older people and investigates how recent developments in textiles, fibres, finishes, design and integrated technology can be deployed to serve this group and improve

quality of life. Part I provides an understanding of the active aging population by considering the group's experiences of and attitudes towards clothing and reviewing the barriers to their adoption of new wearable technologies. Part II focuses on the needs of the older population, including effective communication with designers and the age-related anatomical and physiological changes that designs should consider. Part III reviews design requirements and processes, and finally Part IV reviews the manufacture of suitable apparel, with chapters on suitable textile fibres, balancing technology and aesthetics and wearable electronics. Summarises the wealth of recent research on attitudes to clothing amongst the active ageing population Looks into how their aspirations can be investigated and appropriate apparel designed to meet their needs Examines design and manufacturing issues, including ways of accommodating physiological changes with age and the use of wearable electronics Buy now to get the main key ideas from Tom Kelley & David Kelley's Creative Confidence Creativity is an essential tool for problem solving and innovation in any endeavor - not just the arts. In Creative Confidence (2013), brothers and innovators Tom Kelley and David Kelley explain how to harness and grow your creativity in both your professional and personal life. Building your creative confidence will allow you to boost your productivity and succeed in all aspects of your life. This book brings together some of the finest academics in the field to address important questions around the way in which people experience their physical environments, including temperature, light, air-quality, acoustics and so forth. It is of importance not only to the comfort people feel indoors, but also the success of any building as an environment for its stated purpose. The way in which comfort is produced and perceived has a profound effect on the energy use of a building and its resilience to the increasing dangers posed by extreme weather events, and power outages caused by climate change. Research on thermal comfort is particularly important not only for the health and well-being of occupants but because energy used for temperature control is responsible for a large part of the total energy budget of the built environment. In recent years there has been an increasing focus on the vulnerabilities of the thermal comfort system; how and why are buildings failing to provide safe and agreeable thermal environments at an affordable price? Achieving comfort in buildings is a complex subject that involves physics, behaviour, physiology, energy conservation, climate change, and of course architecture and urban design. Bringing together the related disciplines in one volume lays strong, multi-disciplinary foundations for new research and design directions for resilient 21st century architecture. This book heralds workable solutions and emerging directions for key fields in building the resilience of households, organisations and populations in a heating world. In this fourth book in the CHDL Series, a selection of the best papers presented in FDL'02 is published. System Specification and Design Languages contains outstanding research contributions in the four areas mentioned above. So, The Analog and Mixed-Signal system design contributions cover the new methodological approaches like AMS behavioral specification, mixed-signal modeling and simulation, AMS reuse and MEMs design using the new modeling languages such as VHDL-AMS, Verilog-AMS, Modelica and analog-mixed signal extensions to SystemC. UML is the de-facto standard for SW development covering the early development stages of requirement analysis and system specification. The UML-based system specification and design contributions address latest results on hot-topic areas such as system profiling, performance analysis and UML application to complex, HW/SW embedded systems and SoC design. C/C++-for HW/SW systems design is entering standard industrial design flows. Selected papers cover system modeling, system verification and SW generation. The papers from the Specification Formalisms for Proven design workshop present formal methods for system modeling and design, semantic integrity and formal languages such as ALPHA, HANDLE and B. This book provides an up-to-date coverage of green (vegetated) roof research, design, and management from an ecosystem perspective. It reviews, explains, and poses questions about monitoring, substrate, living components and the abiotic, biotic and cultural aspects connecting green roofs to the fields of community, landscape and urban ecology. The work contains examples of green roof venues that demonstrate the focus, level of detail, and techniques needed to understand the structure, function, and impact of these novel ecosystems. Representing a seminal compilation of research and technical

knowledge about green roof ecology and how functional attributes can be enhanced, it delves to explore the next wave of evolution in green technology and defines potential paths for technological advancement and research. Stories from years of teaching high school chemistry. Are you interested in using argument-driven inquiry for middle school lab instruction but just aren't sure how to do it? Argument-Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away. The book is a one-stop source of expertise, advice, and investigations to help physical science students work the way scientists do. The book is divided into two basic parts: 1. An introduction to the stages of argument-driven inquiry—from question identification, data analysis, and argument development and evaluation to double-blind peer review and report revision. 2. A well-organized series of 22 field-tested labs designed to be much more authentic for instruction than traditional laboratory activities. The labs cover four core ideas in physical science: matter, motion and forces, energy, and waves. Students dig into important content and learn scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher. The authors are veteran teachers who know your time constraints, so they designed the book with easy-to-use reproducible student pages, teacher notes, and checkout questions. The labs also support today's standards and will help your students learn the core ideas, crosscutting concepts, and scientific practices found in the Next Generation Science Standards. In addition, the authors offer ways for students to develop the disciplinary skills outlined in the Common Core State Standards. Many of today's middle school teachers—like you—want to find new ways to engage students in scientific practices and help students learn more from lab activities. Argument-Driven Inquiry in Physical Science does all of this while also giving students the chance to practice reading, writing, speaking, and using math in the context of science. SCIENCE STORIES helps teachers build their own instructional knowledge through the use of narratives about science in real-world classrooms that demonstrate important content, learning, and strategies in action. Expanding Meanings sections following the stories highlight the applicable Teaching Ideas, Science Ideas, and Science Standards. Author Janice Koch's constructivist approach guides teachers in the discovery and exploration of their scientific selves so that they can learn from students' experiences and become effective scientific explorers in their own classrooms. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book explores the increasing altruistic impulse of the design community to address some of the world's most difficult problems including social, political, environmental, and global health causes at the local, national, and global scale. Each chapter strategically combines theory and practice to examine how to identify causes and locate accurate data, truth and integrity in information design, the information design/data visualization process, understanding audiences, crafting meaningful narratives, and measuring the impact of a design. A variety of international case studies and interviews with practitioners illustrate the challenges and impact of designing for social agendas. These range from traditional media outlets like The New York Times and The Guardian, popular science organizations like National Geographic and Scientific America, to health institutes like The World Health Organization and The Center for Disease Control. This book allows the novice information designer to create compelling human-centered information narratives which make a difference in our world. Until very recently, energy supply of the world has been treated as being nearly inexhaustible. Nowadays about 90 percent of the energy used is obtained from non-renewable resources: oil, natural gas, coal and uranium. These resources are being used up at an alarming rate. To meet our demands we are now searching for new sources of energy. One of these new sources of energy is solar energy which will assume increasing importance. It is free but means must be developed to use it economically. Research is actively under way to reduce the storage cost of this low intensity energy and for the design of economical systems. The purpose of this Institute is to provide an international forum for the dissemination of information on solar energy utilization: fundamentals and applications in industry. This meeting is primarily a high level teaching activity. The subject is treated in considerable depth by lecturers eminent in their field. The other participants include scientists,

engineers, and senior graduate students who themselves are involved in a similar research and who wish to learn more about current developments, as well as scientists from other areas who are planning to research on solar energy. The lectures are supplemented by informal discussions designed to encourage the free and critical exchange of ideas. A limited number of contributions are also included. This volume contains both basic and applied information contributed during the Institute. The editors appreciate the cooperation of Martinus Nijhoff Publishers in making the proceedings widely available. This book describes how comfort, energy and climate change in developing countries and vulnerable sectors of the population relate to buildings. The building sector is currently facing significant challenges connected to energy consumption, energy poverty and climate change effects. When studied in developing countries and vulnerable sectors of the population, these factors, which are commonplace in the tropics and the southern hemisphere, are interlinked and share a critical component: environmental comfort. Although progress has been made in environmental comfort through research and the development of standards and policies at the international level, in the Global South, where the countries with the highest levels of income inequality are concentrated, environmental comfort has its own characteristics and challenges that prevent a clear understanding from the established vision of the Global North. This book presents research, theories and techniques related to Thermal comfort, Indoor air quality, Visual comfort, and Acoustic comfort and its relationship with energy use and energy efficiency, seeking to address different barriers to environmental comfort. It shows how to improve the way buildings are designed and operated to promote healthier environmental conditions and more sustainable construction, by presenting studies and reflections carried out in the target geographical area: the Global South. In this way, this book contributes to developing the concept of environmental comfort, visualising how progress has been made in understanding it from a tropical and southern perspective, and posing common challenges. The book is intended for engineers, architects, and researchers of the built environment who are interested in environmental comfort and its influence on energy consumption, energy poverty, and other related factors in the Global South context. It is also a useful resource for decision-makers and public policy developers concerned with the indoor comfort of buildings. Moreover, the book aims to provide guidance for those in developing countries by gathering existing knowledge in the field for the tropics and southern hemisphere climatic and sociocultural contexts, allowing us to move forward in this subject with actions and proposed solutions that fit our particular needs. This much-anticipated new title forms part of the American Institute of Architect's esteemed Design for Aging Review program, a joint effort of the AIA Design for Aging Knowledge Community and LeadingAge, which also includes a juried exhibition and education programs. This book celebrates the 25th anniversary of this internationally renowned program and features a selected diverse range of projects. This volume showcases 29 outstanding projects in the areas of architectural innovation and represents the best designs for senior citizens, including nursing homes, dementia care, assisted living, and continuing care retirement communities. Each project is presented with rich, full-color photography, detailed plans, and statistics, illuminating the high level of research, planning and community involvement that goes into these advancements in living environments for seniors. This comprehensive review of architectural design trends in aged-care facilities will appeal to aged-care providers, developers, users, and advocates; architects; and interior, landscape, and other design professionals. Popular TV star Olson shares her favorite design challenges. She focuses on the tricky situations that many homeowners face. Featuring 25-30 of Olson's stunning room makeovers--described in her approachable and authoritative voice, with gorgeous sketches and design boards 200 full-color before-and-after photos. A little science, a little arts and crafts, a little math, a lot creative and a whole lot of fun! This packet is full of activities and ideas that give free reign to students' curiosity and stretch their creativity. There are opportunities to investigate, create and discover in all areas of the curriculum. Clear step-by-step instructions make the activities easy and fun for students, while the aims and objectives, extension activities and assessment tools make it a helpful resource for teachers. Among the places worst hit by climate change are areas of high urban growth in the warm, humid tropics of Asia and Latin America. In

these places, the global trend of rapid urbanisation and conditions of local warming compound the effects of climate change. This three-part book explores the unique local climate consequences of urban growth trajectories of tropical cities and provides strategies and design approaches to enhance the quality of life of tropical urban dwellers in the face of urban warming. Part One considers the philosophical basis of the climate challenge in this context and investigates tropical urbanism from the viewpoints of urban activity patterns and the notion of 'thermal pleasure'. Part Two explores specific, practical techniques in enhancing ventilation, shading and greenery as well as the challenges in local climate assessment in the tropics. Part Three explores the barriers and future opportunities for climate-sensitive urban planning and presents specific examples of good practice, contextualized within the wider global debate on adapting to climate change. *Urban Climate Challenges in the Tropics* is an indispensable companion for planners, designers, architects and students of all levels.

Contents: Introduction (Rohinton Emmanuel) Achieving Thermal Pleasure in Tropical Urban Outdoors (Rohinton Emmanuel) Management of Shading and Public Places (Tzu-Ping Lin) Urban Air Ventilation in High-Density Cities in the Tropics (Edward Ng) Vegetation and Climate-sensitive Public Places (Denise H S Duarte) Urban Thermal Comfort in the Tropics (Erik Johansson) Urban Climate Mapping in the Tropics (Narein Perera) Urban Climate Modeling: Challenges in the Tropics (Renganathan Giridharan) Urban Exemplars of Climate-sensitive Design (Patricia Drach) Integration of Climate Knowledge in Urban Design and Planning (Gerald Mills)

Readership: Planners, designers, architects and advanced undergraduate and graduate students of architecture or planning and environmental management with a focus on the tropics.

Key Features: Places the urban climate amelioration debate within the wider climate change debate Focuses specifically on an important and rapidly urbanizing region (the tropics) Provides practical advice to researchers and practitioners dealing with urban sustainability and climate sensitive design in the tropics The combined challenges of health, comfort, climate change and energy security cross the boundaries of traditional building disciplines. This authoritative collection, focusing mostly on energy and ventilation, provides the current and next generation of building engineering professionals with what they need to work closely with many disciplines to meet these challenges.

*A Handbook of Sustainable Building Engineering* covers: how to design, engineer and monitor a building in a manner that minimises the emissions of greenhouse gases; how to adapt the environment, fabric and services of existing and new buildings to climate change; how to improve the environment in and around buildings to provide better health, comfort, security and productivity; and provides crucial expertise on monitoring the performance of buildings once they are occupied. The authors explain the principles behind built environment engineering, and offer practical guidance through international case studies. Robert Brown helps us see that a "thermally comfortable microclimate" is the very foundation of well-designed and well-used outdoor places. Brown argues that as we try to minimize human-induced changes to the climate and reduce our dependence on fossil fuels—as some areas become warmer, some cooler, some wetter, and some drier, and all become more expensive to regulate—good microclimate design will become increasingly important. In the future, according to Brown, all designers will need to understand climatic issues and be able to respond to their challenges. Brown describes the effects that climate has on outdoor spaces—using vivid illustrations and examples—while providing practical tools that can be used in everyday design practice. The heart of the book is Brown's own design process, as he provides useful guidelines that lead designers clearly through the complexity of climate data, precedents, site assessment, microclimate modification, communication, design, and evaluation. Brown strikes an ideal balance of technical information, anecdotes, examples, and illustrations to keep the book engaging and accessible. His emphasis throughout is on creating microclimates that attend to the comfort, health, and well-being of people, animals, and plants. *Design with Microclimate* is a vital resource for students and practitioners in landscape architecture, architecture, planning, and urban design. IDEO founder and Stanford d.school creator David Kelley and his brother Tom Kelley, IDEO partner and the author of the bestselling *The Art of Innovation*, have written a powerful and compelling book on unleashing the creativity that lies within each and every one of us. Too often,

companies and individuals assume that creativity and innovation are the domain of the "creative types." But two of the leading experts in innovation, design, and creativity on the planet show us that each and every one of us is creative. In an incredibly entertaining and inspiring narrative that draws on countless stories from their work at IDEO, the Stanford d.school, and with many of the world's top companies, David and Tom Kelley identify the principles and strategies that will allow us to tap into our creative potential in our work lives, and in our personal lives, and allow us to innovate in terms of how we approach and solve problems. It is a book that will help each of us be more productive and successful in our lives and in our careers. A little science, a little arts and crafts, a little math, a lot creative and a whole lot of fun! Full of activities and ideas that give free reign to students' curiosity and stretch their creativity. Opportunities to investigate, create and discover in all areas of the curriculum. Clear step-by-step instructions make the activities easy and fun for students, while the aims and objectives, extension activities and assessment tools make it a helpful resource for teachers. For sustainable architecture to become a reality, the way we design buildings needs to change. Many architects are concerned that sustainable technologies may interfere with a building's aesthetic appearance, and so these are often 'added on' once the design process is complete. Elements of Sustainable Architecture solves this dilemma by helping students to develop the design skills they need to create sustainable buildings - ensuring that ecological considerations are applied throughout the design process. Restoring the primacy of aesthetics and creativity to sustainable design, the book focuses on strategies that have the greatest impact on building design. It also shows the influence of sustainability considerations on choices about aspects such as composition, form, space, tectonics, materials, colour, textures, proportion and position. Specifically designed to offer a new way of understanding architecture, the book: introduces students to the basic principles and methods of sustainable design; features current examples and inspiring case studies to support learning step by step; presents information in a visually appealing, intuitive, easy-to-understand way; includes over 500 high-quality colour diagrams, drawings, sketches and photographs. A clear, visual introduction to creating aesthetically beautiful and sustainable buildings, this is essential reading for students in sustainable architecture courses. This book provides an up-to-date review of the effects of increasing atmospheric carbon dioxide on agroecosystems, forests, and grasslands. It summarizes the main findings from 13 experiments with annual crops, permanent pastures and plantation forests at 11 sites throughout the world during the past ten years. The results significantly alter our perception of how rising CO<sub>2</sub> will directly affect these managed ecosystems. From Heidi Neck, one of the most influential thinkers in entrepreneurship education today, Chris Neck, an award-winning professor, and Emma Murray, business consultant and author, comes this ground-breaking new text. Entrepreneurship: The Practice and Mindset catapults students beyond the classroom by helping them develop an entrepreneurial mindset so they can create opportunities and take action in uncertain environments. Based on the world-renowned Babson Entrepreneurship program, this new text emphasizes practice and learning through action. Students learn entrepreneurship by taking small actions and interacting with stakeholders in order to get feedback, experiment, and move ideas forward. Students walk away from this text with the entrepreneurial mindset, skillset, and toolset that can be applied to startups as well as organizations of all kinds. Whether your students have backgrounds in business, liberal arts, engineering, or the sciences, this text will take them on a transformative journey. Researchers have revealed that real expertise, while applied to well-defined tasks with highly circumscribed contexts, often stretches beyond its routine boundaries. For example, a medical doctor may be called upon to diagnose a rare disease or perform emergency surgery outside his or her area of specialization because other experts are not available. Moreover, in some cases, the context for expertise is in a constant state of flux, such that no one case is identical. Expertise Out of Context is a culmination of some of the most insightful studies conducted by researchers in the fields of cognitive systems engineering and naturalistic decision making in the effort to better understand expertise and its development. Born out of the Sixth International Conference on Naturalistic Decision Making, a conference that gathers researchers who study cognition,



perception, and reasoning outside of the traditional laboratory, this book is organized in five parts, the first of which provides an overview of the topic and presents varied perspectives. Subsequent sections cover how to make sense of things, tools for thinking out of context, how to cope with uncertainty in a changing workplace, and teams operating out of context. As researchers in naturalistic decision making have investigated such areas as the knowledge and decision-making skills of expert firefighters, critical care nurses, military commanders, and aircraft pilots, this volume is of importance to an expansive audience, including individuals in business, government, industry, and society at large. The key to winter travel is knowing how to travel as light as possible. The Ultralight series is perfect for both beginner and experts alike as Justin Lichter and Shawn Forry, the first ever winter thru-hikers of the Pacific Crest Trail, use their knowledge to form the most comprehensive companion for traveling farther with less weight. Ultralight Winter Travel focuses on all of the skills and techniques that winter adventurers would want at their fingertips while in the outdoors. Perfect for winter travelers from beginner to advanced, this book contains: Worst-case-scenario advice you'd want handy if stuck in a precarious situation. Topics like: how to predict weather patterns, how to keep your pack light without sacrificing the essentials, how to repair or replace gear with limited materials, and how to deal with the elements when you don't have a lot of gear. The book is formatted to make learning easy and user-friendly. Readers will be able to adapt their surroundings to the techniques shown in the book and safely overcome challenges that which may otherwise have turned them back. Participatory Design is about the direct involvement of people in the co-design of the technologies they use. Embracing a diverse collection of principles and practices aimed at making technologies, tools, environments, businesses, and social institutions more responsive to human needs, this is a state-of-the-art reference handbook for the subject. The Routledge International Handbook of Participatory Design brings together a multidisciplinary and international group of experts to discuss the pivotal issues in participatory design. \* A classic reference providing the applications, on-the-job insights, codes and specifications, and direction needed to design HVAC systems \* Covers residential, commercial, and industrial systems \* NEW coverage of Energy Conservation and Digital Control Practice and greater emphasis on indoor air quality The globally averaged surface temperature of the Earth has increased during the past century by about 0.7°C. Most of the increase can be attributed to the greenhouse effect, the increase in the atmospheric concentration of carbon dioxide that is emitted when fossil fuels are burned to produce energy. The book begins with the important distinction between weather and climate, followed by data showing how carbon dioxide has increased and the incontrovertible evidence that it is caused by burning fossil fuels (i.e., coal, oil, and natural gas). I also address the inevitable skepticism that global warming arouses and offer a number of responses to the global warming skeptics. After dealing with the skeptics, I analyze both the current and future effects of global warming. These future effects are based on scenarios or "storylines" put forth by the International Institute for Applied Systems Analysis. In closing, I address the controversial (and grim) suggestion that we have already passed the "tipping point," which is the time after which, regardless of our future actions, global warming will cause considerable hardship on human society. I intend this book to be approachable for all concerned citizens, but especially students of the sciences and engineering who will soon be in a position to make a difference in the areas of energy and the environment. I have tried to frame the debate in terms of what the engineering community must do to help combat global warming. We have no choice but to think in terms of global environmental constraints as we design new power plants, factories, automobiles, buildings, and homes. The best thing for scientists to do is to present what we know, clearly separating what is known from what is suspected, in a non-apocalyptic manner. If matters are clearly and passionately presented to the public, we must be prepared to accept the will of the people. This presents the scientific community with an enormous responsibility, perhaps unlike any we have had in the past. Contents: Weather and Climate (and a Little History) / Are the Concentrations of Greenhouse Gases in the Atmosphere Increasing? / The Greenhouse Effect and the Evidence of Global Warming / The Skeptics: Are Their Doubts Scientifically Valid / Impacts: The "So What" Question / The Bottom Line

The thought of beginning a home renovation project can be daunting. In her insider's guide, experienced interior designer Orna O'Reilly shares a step-by-step process that allows anyone to confidently manage an entire home renovation from start to finish, with or without assistance from an interior designer or architect. Orna, who has more than twenty years of experience in interior design and home renovation, explores the most challenging aspects of such project management. These include hiring a builder, managing subcontractors, and knowing when and how to involve an architect or interior designer. By providing a detailed step-by-step process with vital information-gathering questions, Orna teaches you how to: - understand basic building terminology - create a workable design - set a realistic budget and schedule - choose the perfect finishes for your home - coordinate a show-stopping colour scheme - incorporate important elements of kitchen and bathroom design Are you interested in using argument-driven inquiry for middle school lab instruction but just aren't sure how to do it? Argument-Driven Inquiry in Physical Science will provide you with both the information and instructional materials you need to start using this method right away. The book is a one-stop source of expertise, advice, and investigations to help physical science students work the way scientists do. Student Lab Manual for Argument-Driven Inquiry in Life Science provides the student materials you need to guide your students through these investigations. With lab details, student handouts, and safety information, your students will be ready to start investigating.

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