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## **Sustainable Home Design by Applying Control Science** - Kazutoshi Fujihira 2017-12-06

Today's homes must prepare for a progressing ageing population and an increasing risk caused by climate change, as well as to reduce CO2 emissions. How homes can be designed to meet all of these requirements? How such design can be promoted in the housing market? Sustainable Home Design by Applying Control Science answers these questions, by using a novel approach. Kazutoshi Fujihira, an innovative environmental scientist and sustainable housing award winner, demonstrates the "control system for promoting sustainable home design" with the "sustainable design guidelines" and "sustainability checklist". Moreover, the chapter of case study illustrates an actually designed and constructed house, which shows excellent sustainability and energy-saving performance.

## **Indoor Environmental Quality** - Muhammad Abdul Mujeebu 2019-02-27

This book deals with indoor environmental quality (IEQ), which encompasses diverse factors that affect human life inside a building. These factors include indoor air quality (IAQ), lighting, acoustics, drinking water, ergonomics, electromagnetic radiation, and so on. Enhanced environmental quality can improve the quality of life and productivity of the occupants, increase the resale value of the building, and minimize the penalties on building owners. The book covers an overview of IEQ and its research progress, IAQ and its monitoring, the best indoor illumination scenes, IEQ in healthcare buildings, and acoustic comfort in residential buildings and places of worship. This book is expected to benefit undergraduate and postgraduate students, researchers, teachers, practitioners, policy makers, and every individual who has a concern for healthy life.

## **Software Quality** - Daniel Galin 2018-03-27

The book presents a comprehensive discussion on software quality issues and software quality assurance (SQA) principles and practices, and lays special emphasis on implementing and managing SQA. Primarily designed to serve three audiences; universities and college students, vocational training participants, and software engineers and software development managers, the book may be applicable to all personnel engaged in a software projects. Features: A broad view of SQA. The book delves into SQA issues, going beyond the classic boundaries of custom-made software development to also cover in-house software development, subcontractors, and readymade software. An up-to-date wide-range coverage of SQA and SQA related topics. Providing comprehensive coverage on multifarious SQA subjects, including topics, hardly explored till in SQA texts. A systematic presentation of the SQA function and its tasks: establishing the SQA processes, planning, coordinating, follow-up, review and evaluation of SQA processes. Focus on SQA implementation issues. Specialized chapter sections, examples, implementation tips, and topics for discussion. Pedagogical support: Each chapter includes a real-life mini case study, examples, a summary, selected bibliography, review questions and topics for discussion. The book is also supported by an Instructor's Guide.

## **An Assessment of Illness in U.S. Government Employees and Their Families at Overseas Embassies** - National Academies of Sciences, Engineering, and Medicine 2021-01-05

In late 2016, U.S. Embassy personnel in Havana, Cuba, began to report the development of an unusual set of symptoms and clinical signs. For some of these patients, their case began with the sudden onset of a loud noise, perceived to have directional features, and accompanied by pain in one or both ears or across a broad region of the head, and in some cases, a sensation of head pressure or vibration, dizziness, followed in some cases by tinnitus, visual problems, vertigo, and cognitive difficulties. Other personnel attached to the U.S. Consulate in Guangzhou, China, reported similar symptoms and signs to varying degrees, beginning in the following year. As of June 2020, many of these personnel continue to suffer from these and/or other health problems. Multiple hypotheses and mechanisms have been proposed to explain these clinical cases, but evidence has been lacking, no hypothesis has been proven, and the circumstances remain unclear. The Department of State asked the National Academies to review the cases, their clinical features and management, epidemiologic investigations, and scientific evidence in support of possible causes, and advise on approaches for the investigation of potential future cases. In *An Assessment of Illness in U.S. Government Employees and Their Families at Overseas Embassies*, the committee identifies distinctive clinical features, considers possible causes, evaluates plausible mechanisms and rehabilitation efforts, and offers recommendations for future planning and responses.

## **Restorative Gardens** - Nancy Gerlach-Spriggs 1998-01-01

Restorative gardens for the sick, which were a vital part of the healing process from the Middle Ages to the early twentieth century, provided ordered and beautiful settings in which patients could begin to heal, both physically and mentally. In this engaging book, a landscape architect, a physician, and a historian examine the history and role of restorative gardens to show why it is important to again integrate nature into the institutional--and largely factorylike--settings of modern health care facilities. In this unique book, Nancy Gerlach-Spriggs, Dr. Richard Enoch Kaufman, and Sam Bass Warner, Jr., unfold their argument by presenting the history of restorative gardens and studies of six American health care centers that cherish the role of their gardens in the therapeutic process. These institutions are examined in detail: community hospitals in Wausau, Wisconsin, and Monterey, California; a full-care mental institution in Philadelphia; a nursing home in Queens; a facility for rehabilitative medicine in New York City; and a hospice in Houston. In their comprehensive review the authors suggest that contemporary scientific understanding clearly recognizes the beneficial physiological effects of garden environments on patients' well-being. The book ends with a plea to make gardens--rather than the shopping mall atria so often seen in newly renovated hospitals--a vital part of the medical milieu.

## **Library as Place** - Geoffrey T. Freeman 2005

What is the role of a library when users can obtain information from any location? And what does this role change mean for the creation and design of library space? Six authors an architect, four librarians, and a professor of art history and classics explore these questions this report. The authors challenge the reader to think about new potential for the place we call the library and underscore the growing importance of the library as a place for teaching, learning, and research in the digital age.

*Chemistry, Emission Control, Radioactive Pollution and Indoor Air Quality* - Nicolas Mazzeo 2011-07-27

The atmosphere may be our most precious resource. Accordingly, the balance between its use and protection is a high priority for our civilization. While many of us would consider air pollution to be an issue that the modern world has resolved to a greater extent, it still appears to have considerable influence on the global environment. In many countries with ambitious economic growth targets the acceptable levels of air pollution have been transgressed. Serious respiratory disease related problems have been identified with both indoor and outdoor pollution throughout the world. The 25 chapters of this book deal with several air pollution issues grouped into the following sections: a) air pollution chemistry; b) air pollutant emission control; c) radioactive pollution and d) indoor air quality.

Microorganisms in the Deterioration and Preservation of Cultural Heritage - Edith Joseph 2021-05-05

This open access book offers a comprehensive overview of the role and potential of microorganisms in the degradation and preservation of cultural materials (e.g. stone, metals, graphic documents, textiles, paintings, glass, etc.). Microorganisms are a major cause of deterioration in cultural artefacts, both in the case of outdoor monuments and archaeological finds. This book covers the microorganisms involved in biodeterioration and control methods used to reduce their impact on cultural artefacts. Additionally, the reader will learn more about how microorganisms can be used for the preservation and protection of cultural artefacts through bio-based and eco-friendly materials. New avenues for developing methods and materials for the conservation of cultural artefacts are discussed, together with concrete advances in terms of sustainability, effectiveness and toxicity, making the book essential reading for anyone interested in microbiology and the preservation of cultural heritage.

Sustainable Development and Renovation in Architecture, Urbanism and Engineering - Pilar Mercader-Moyano 2017-03-17

This book provides an overview of the environmental problems that arise from construction activity, focusing on refurbishment as an alternative to the current crisis in the construction sector, as well as on measures designed to minimize the effects on the environment. Furthermore, it offers professionals insights into alternative eco-efficient solutions using new materials to minimize environmental impacts and offers solutions that they can incorporate into their own designs and buildings. It also demonstrates best practices in the cooperation between various universities in Andalusia in Spain and Latin America and many public and private companies and organizations. This book serves as a valuable reference resource for professionals and researchers and provides an overview on the status of investigations to find solutions to improve sustainable development in terms of materials, systems, facilities, neighborhoods, buildings, and awareness of the society involved.

**Rainwater Tank Systems for Urban Water Supply** - Ashok K. Sharma 2015-05-15

Rainwater tank systems have been widely adopted across the world to provide a safe local source of water in underdeveloped rural areas, a substitution for mains water for non potable end uses in water stressed urban areas, as well as providing flooding control in monsoonal climates such as Korea, or combined sewer systems such as Germany. The importance of these systems in cities has grown, as water managers seek to provide a range of decentralised solutions to supply constraints of current water supply systems, whilst reducing the impact of urban development on the natural environment, and increasing resilience to the impacts of climate change. Rainwater tank systems are now often implemented under integrated urban water management (IUWM) and water

sensitive urban design (WSUD) philosophies, which take a holistic view of the urban water cycle. Rainwater Tank Systems for Urban Water Supply is based on a comprehensive, multi-million dollar research program that was undertaken in South East Queensland (SEQ) Australia in response to the Millennium drought when the water supply level in the regions drinking water dams dropped to 17% in July 2007 and the area came close to running out of water. In particular, the book provides insights and detailed analysis of design, modelling, implementation, operation, energy usage, economics, management, health risk, social perceptions and implications for water quality/quantity of roof water runoff. The approaches and methodologies included in Rainwater Tank Systems for Urban Water Supply inform and validate research programs, and provide insights on the expected performance and potential pitfalls of the adoption of rainwater tanks systems including: actual harvested yield and resulting mains water savings, optimal sizing for rainwater storages and roof collection systems, expected water quality and implications for managing public health risks, modelling tools available for decision support, operation and management approaches of a decentralised asset at the household scale and community acceptance. The book is suitable for use at undergraduate and post graduate levels and is of particular interest to water professionals across the globe, who are involved in the strategic water planning for a town, city or a region. It is a valuable resource for developers, civil designers, water planners, architects and plumbers seeking to implement sustainable water servicing approaches for residential, industrial and commercial developments.

**A History of Haematology** - Shaun R. McCann 2016

Blood has long been an object of intrigue for many of the world's philosophers and physicians, and references to it have existed since the earliest studies of human anatomy. Herodotus of Halicarnassus, whose writings 500 years before the birth of Christ drew on stories collected during his widespread travels, was amongst the first to identify the ritualistic and medical significance of blood. However, despite this long established history, haematology as a medical specialty is relatively new. A History of Haematology: From Herodotus to HIV traces the history of haematology from biblical times to the present, discussing the major defining discoveries in the specialty, ranging from war as a catalyst for the development of new techniques in blood transfusion, to the medical response to the HIV/AIDS epidemic. In this beautifully illustrated and passionately rendered history of the field of haematology, Professor Shaun McCann traces the remarkable developments within haematology and the work of the scientists and pioneers central to these advances. This engaging and authoritative history will appeal to a wide audience including haematologists, nurses and other health care workers in haematology, as well as medical students, and general physicians with an interest in haematology.

Therapeutic Landscapes - Allison Williams 2017-05-15

The therapeutic landscape concept, first introduced early in the 1990s, has been widely employed in health/medical geography and gaining momentum in various health-related disciplines. This is the first book published in several years, and provides an introduction to the concept and its applications. Written by health/medical geographers and anthropologists, it addresses contemporary applications in the natural and built environments; for special populations, such as substance abusers; and in health care sites, a new and evolving area - and provides an array of critiques or contestations of the concept and its various applications. The conclusion of the work provides a critical evaluation of the development and progress of the concept to date, signposting the likely avenues for future investigation.

Urban Health and Wellbeing - Aakriti Grover 2019-10-25

This book focuses on interdisciplinary issues of human health in the changing urban environments of India's largest megacities—Delhi and Mumbai. The authors explore human health concerns related to increased temperatures and air pollution in these cities in a study based on primary data collected through interviews, as well as secondary data on causes of mortality from 2001 to 2012. During this period, the surface temperatures for

both megacities were mapped using Landsat Images. The rapidly increasing populations of cities and urban centers alter ecosystem services such as water, air and land cover, with disastrous impacts on health and wellbeing, particularly in megacities. In 2015, polluted air was estimated to have been responsible for 6.4 million deaths worldwide, and it is projected that it will cause between 6 and 9 million deaths per year by 2060. In 2017, outdoor air pollution resulted in 1.2 million deaths in India and brought about a 3% loss in GDP. The increase in population, vehicles, and industries has led to changes in land use and land cover and a rise in city temperatures and air pollution, creating urban heat islands (UHIs). Together, UHIs and air pollution have damaging impacts on human health that range from stress and headache to asthma, bronchitis, and chronic diseases, and even to death. Delhi has been experiencing emergency conditions in terms of environmental health over the past two years. At the same time, both the Delhi and Mumbai urban agglomerations are growing at a rapid pace, and the United Nations has projected that they will be the second and third most populous cities in the world by 2025. In this context, the book offers significant insights into the past patterns and responses to the present global urban health emergencies, and explores sustainable means of combating the problem to enable college and university researchers to develop innovative solutions. Further, it presents trans-disciplinary research that cuts across the WHO Action Plan, the Sustainable Development Goals, the Sendai Framework for Disaster Risk Reduction, and Habitat III to help policymakers gain a better understanding of the global challenges of urban health and wellbeing. The book is especially useful for students and researchers in geography, urban demography, urban studies, environmental studies, health sciences, and policy studies.

*Advances in Security in Computing and Communications* - Jaydip Sen 2017-07-19

In the era of Internet of Things (IoT) and with the explosive worldwide growth of electronic data volume, and associated need of processing, analysis, and storage of such humongous volume of data, several new challenges are faced in protecting privacy of sensitive data and securing systems by designing novel schemes for secure authentication, integrity protection, encryption, and non-repudiation. Lightweight symmetric key cryptography and adaptive network security algorithms are in demand for mitigating these challenges. This book presents some of the state-of-the-art research work in the field of cryptography and security in computing and communications. It is a valuable source of knowledge for researchers, engineers, practitioners, graduates, and doctoral students who are working in the field of cryptography, network security, and security and privacy issues in the Internet of Things (IoT). It will also be useful for faculty members of graduate schools and universities.

*Introduction to Architectural Science* - Steven V. Szokolay 2014-04-11

Now in its third edition, this book provides the ideal and only reference to the physical basis of architectural design. Fully updated and expanded throughout, the book provides the data required for architects to design buildings that will maintain the users comfort in a variety of conditions, with minimal reliance on energy intensive methods like air conditioning. This is not a 'how to' book but answers the question why. It equips the reader with the tools to realize the full potential of the good intentions of sustainable, bioclimatic design. All sections have been revised and updated for this third edition including all the most relevant developments affecting heat, light and sound controls. The book responds to the need of understanding beyond 'rules of thumb'.

*Qualitative versus Quantitative Research* - Sonyel Oflazoglu 2017-06-28

The objective of this book is to fill the gap combining several studies from qualitative and quantitative research methods. The various chapters presented here follow several approaches that researchers explore in different context. This book intends to contribute to better understanding of the application areas of qualitative research method and to show how these business practices in social sciences can stimulate in various areas.

*Oxford Textbook of Clinical Nephrology* - Neil N. Turner 2015-10-29

This fourth edition of the Oxford Textbook of Clinical Nephrology builds on the success and international

reputation of the publication as an important resource for the practising clinician in the field. It provides practical, scholarly, and evidence-based coverage of the full spectrum of clinical nephrology, written by a global faculty of experts. The most relevant and important reference to clinical nephrology, this is an authoritative and comprehensive textbook combining the clinical aspects of renal disease essential to daily clinical practice with extensive information about the underlying basic science and current evidence available. Each section of the textbook has been critically and comprehensively edited under the auspices of a leading expert in the field. This new edition has been significantly expanded and reapportioned to reflect developments and new approaches to topics, and includes treatment algorithms to aid and enhance patient care where possible. The fourth edition offers increased focus on the medical aspects of transplantation, HIV-associated renal disease, and infection and renal disease, alongside entirely new sections on genetic topics and clinical and physiological aspects of fluid/electrolyte and tubular disorders. The emphasis throughout is on marrying advances in scientific research with clinical management. Richly illustrated throughout in full colour, this is a truly modern and attractive edition which reinforces the Oxford Textbook of Clinical Nephrology's position as an indispensable reference work of consistent quality and reliability. Enriched and refined by careful revision, this new edition continues the tradition of excellence. This print edition of The Oxford Textbook of Clinical Nephrology comes with a year's access to the online version on Oxford Medicine Online. By activating your unique access code, you can read and annotate the full text online, follow links from the references to primary research materials, and view, enlarge and download all the figures and tables. Oxford Medicine Online is mobile optimized for access when and where you need it.

*Palliative Medicine: A Case-Based Manual* - Susan MacDonald 2021-12-08

Palliative medicine is the medical care provided for people who have a life limiting illness or condition. It encompasses both the physical symptoms a person may experience but also the psychosocial, emotional, and ethical issues that may arise. Now in its fourth edition, *Palliative Medicine: A Case-Based Manual* walks clinicians through the management of the most common situations found in palliative medicine, from diagnosis and managing symptoms through to grief and bereavement. Using real patient case scenarios and an easy-to-read question and answer format, it gives students and medical professionals an accessible, evidence-based entryway to gain the skills and knowledge needed to provide high quality palliative and end of life care to patients and their families. This new edition has been fully updated to cover the latest guidance, including new chapters dedicated to medical cannabis, opioids, grief and bereavement, and wider issues including palliative care in the community, structurally vulnerable populations, and public health. Written by over 50 experienced palliative care clinicians and educators, this book will be a welcome guide for palliative care workers, medical and nursing students, and medical professionals of any specialty where palliative needs might arise.

*Deforestation Around the World* - Paulo Moutinho 2012

Deforestation and forest degradation represent a significant fraction of the annual worldwide human-induced emission of greenhouse gases to the atmosphere, the main source of biodiversity losses and the destruction of millions of people's homes. Despite local/regional causes, its consequences are global. This book provides a general view about deforestation dynamics around the world, incorporating analyses of its causes, impacts and actions to prevent it. Its 17 Chapters, organized in three sections, refer to deforestation impacts on climate, soil, biodiversity and human population, but also describe several initiatives to prevent it. A special emphasis is given to different remote-sensing and mapping techniques that could be used as a source for decision-makers and society to promote forest conservation and control deforestation.

*Critical Dialogues in the Medical Humanities* - Emma Domínguez-Rué 2019-06-21

This volume illustrates ongoing discussions in and about the medical humanities with studies on different approaches to the relationship between medical science and practice and the humanities, including reflections based

on fiction, art, history, socio-economic and political concerns, architecture and natural landscapes. The book explores the ways in which healthcare and medical practice can be positively influenced by removing the focus from the technical knowledge of the medical practitioner. It offers innovative perspectives on spaces for healing, traces attitudes and beliefs in relation to illnesses and their treatment throughout history (including intimations of the future), and interrogates cultural attitudes to illness, doctoring and patients through the lens of fiction. Based on the premise that more interdisciplinary work between medical and non-medical professionals is needed, the chapters contained in this volume contribute to an ongoing dialogue between medicine and the humanities that continues to enrich both disciplines.

**Interactivity, Game Creation, Design, Learning, and Innovation** - Anthony L. Brooks 2019-01-30

This book constitutes the refereed post-conference proceedings of two conferences: The 7th EAI International Conference on ArtsIT, Interactivity and Game Creation (ArtsIT 2018), and the 3rd EAI International Conference on Design, Learning, and Innovation (DLI 2018). Both conferences were held in Braga, Portugal, and took place October 24-26, 2018. The 51 revised full papers presented were carefully selected from 106 submissions. ArtsIT, Interactivity and Game Creation is meant to be a place where people in arts, with a keen interest in modern IT technologies, meet with people in IT, having strong ties to art in their works. The event also reflects the advances seen in the open related topics Interactivity (Interaction Design, Virtual Reality, Augmented Reality, Robotics) and Game Creation (Gamification, Leisure Gaming, GamePlay). ArtsIT has been successfully co-located with DLI as the design, learning and innovation frame the world of IT, opening doors into an increasingly playful worlds. So the DLI conference is driven by the belief that tools, techniques and environments can spark and nurture a passion for learning, transformation domains such as education, rehabilitation/therapy, work places and cultural institutions.

**Advances in Virtual Reality and Anxiety Disorders** - Brenda K. Wiederhold 2014-10-27

The interactive computer-generated world of virtual reality has been successful in treating phobias and other anxiety-related conditions, in part because of its distinct advantages over traditional in vivo exposure. Yet many clinicians still think of VR technology as it was in the 1990s—bulky, costly, technically difficult—with little knowledge of its evolution toward more modern, evidence-based, practice-friendly treatment. These updates, and their clinical usefulness, are the subject of *Advances in Virtual Reality and Anxiety Disorders*, a timely guidebook geared toward integrating up-to-date VR methods into everyday practice. Introductory material covers key virtual reality concepts, provides a brief history of VR as used in therapy for anxiety disorders, addresses the concept of presence, and explains the side effects, known as cybersickness, that affect a small percentage of clients. Chapters in the book's main section detail current techniques and review study findings for using VR in the treatment of: · Claustrophobia. · Panic disorder, agoraphobia, and driving phobia. · Acrophobia and aviophobia. · Arachnophobia. · Social phobia. · Generalized anxiety disorder and OCD. · PTSD. · Plus clinical guidelines for establishing a VR clinic. An in-depth framework for effective (and cost-effective) therapeutic innovations for entrenched problems, *Advances in Virtual Reality and Anxiety Disorders* will find an engaged audience among psychologists, psychiatrists, social workers, and mental health counselors.

**Internet of Things (IoT) for Automated and Smart Applications** - Yasser Ismail 2019-11-27

Internet of Things (IoT) is a recent technology paradigm that creates a global network of machines and devices that are capable of communicating with each other. Security cameras, sensors, vehicles, buildings, and software are examples of devices that can exchange data between each other. IoT is recognized as one of the most important areas of future technologies and is gaining vast recognition in a wide range of applications and fields related to smart homes and cities, military, education, hospitals, homeland security systems, transportation and autonomous connected cars, agriculture, intelligent shopping systems, and other modern technologies. This book explores the most important IoT automated and smart applications to help the reader understand the principle of using IoT in

such applications.

**Outdoor Recreation** - Hilde G. Nielsen 2021-01-20

Outdoor recreation refers to recreation/activity executed outdoors, most commonly in natural settings. At least in many high-income countries, outdoor recreation is by many considered as an attractive activity during spare time or holidays. People actively seek out activities such as walking in the mountains, climbing, hunting, horseback riding, skiing, etc., which are very often difficult to accommodate in ordinary working days. Some people find outdoor recreation attractive to the extent that they take several months or a year off from work in order to spend time in nature. Outdoor recreation stimulates a healthy lifestyle and increases public health, and it is important to develop outdoor activity habits from early childhood, a habit that should last for an entire lifetime. This book will take you through the definitions of outdoor recreation and different types of recreation. Furthermore, the book will also give you a snapshot of the physiological and psychological effects of outdoor recreation and why outdoor recreation is important for development in children and adolescents, and for adults and the older population, in addition to descriptions of some of the major and maybe the most used outdoor activities.

**Noise and Environment** - Daniela Siano 2021-02-03

Noise pollution is one of the factors that affect the quality of life of the general population, especially in urban areas, where the noise levels are often high due to the presence of numerous sources, such as transport infrastructures, activities production and commercial areas, entertainment venues and other sound sources which, although temporary, such as construction sites and outdoor music events, affect general noise levels. Even if noise is one of the oldest pollutants referred to in history, for years, the problem of noise pollution has been often considered less important than others related to the environment, such as air pollution, water pollution, and waste management. The regulations in force to contain the noise have become increasingly stringent as each individual is constantly exposed to noise and often the noise is treated just as a scourge of modern society. Making noise is becoming easier and cheaper each day, but just the opposite for controlling it. Deeper studies are needed to understand the core of current noise problems; new materials and techniques are needed to control them. This book is a combination of theory and practice based on the latest research. The studies in this book range from evaluation methods for the perception of noise and outline forecast criteria that can be integrated with applications for acoustic mapping as well as the use of innovative techniques and materials for its abatement. The main purpose of this book, organized in 8 chapters, is to provide an overview of the recent studies in this field and the applications in different research studies. The authors, contributing to the success of this book, provide a series of practical applications of their recent studies aimed at the reduction of noise in different environments. The editors would like to thank all the authors who, through their studies and research, have accepted our invitation to share recent discoveries in this field with the scientific community.

**Green Healthcare Institutions** - Institute of Medicine 2007-06-14

*Green Healthcare Institutions: Health, Environment, and Economics, Workshop Summary* is based on the ninth workshop in a series of workshops sponsored by the Roundtable on Environmental Health Sciences, Research, and Medicine since the roundtable began meeting in 1998. When choosing workshops and activities, the roundtable looks for areas of mutual concern and also areas that need further research to develop a strong environmental science background. This workshop focused on the environmental and health impacts related to the design, construction, and operations of healthcare facilities, which are part of one of the largest service industries in the United States. Healthcare institutions are major employers with a considerable role in the community, and it is important to analyze this significant industry. The environment of healthcare facilities is unique; it has multiple stakeholders on both sides, as the givers and the receivers of care. In order to provide optimal care, more research is needed to determine the impacts of the built environment on human health. The scientific evidence for

embarking on a green building agenda is not complete, and at present, scientists have limited information. Green Healthcare Institutions : Health, Environment, and Economics, Workshop Summary captures the discussions and presentations by the speakers and participants; they identified the areas in which additional research is needed, the processes by which change can occur, and the gaps in knowledge.

**Children and Their Environments** - Christopher Spencer 2006-02-23

This fascinating book examines theories of children's perceptions of space and place and explores how these theories are applied to the world of children. The focus is on children in large real world spaces; places that children live in, explore and learn from. An international team of authors compare the experiences of children from different cultures and backgrounds. This book will appeal to environmental and developmental psychologists and geographers, and also to planners by linking research on children's understandings and on their daily lives to recommendations for practice.

**The Nature Fix: Why Nature Makes Us Happier, Healthier, and More Creative** - Florence Williams 2017-02-07

"Highly informative and remarkably entertaining." —Elle From forest trails in Korea, to islands in Finland, to eucalyptus groves in California, Florence Williams investigates the science behind nature's positive effects on the brain. Delving into brand-new research, she uncovers the powers of the natural world to improve health, promote reflection and innovation, and strengthen our relationships. As our modern lives shift dramatically indoors, these ideas—and the answers they yield—are more urgent than ever.

**Inclusive Designing** - P. M. Langdon 2014-07-08

'Inclusive Designing' presents the proceedings of the seventh Cambridge Workshop on Universal Access and Assistive Technology (CWUAAT '14). It represents a unique multi-disciplinary workshop for the Inclusive Design Research community where designers, computer scientists, engineers, architects, ergonomists, policymakers and user communities can exchange ideas. The research presented at CWUAAT '14 develops methods, technologies, tools and guidance that support product designers and architects to design for the widest possible population for a given range of capabilities, within a contemporary social and economic context. In the context of developing demographic changes leading to greater numbers of older people and people with disabilities, the general field of Inclusive Design Research strives to relate the capabilities of the population to the design of products. Inclusive populations of older people contain a greater variation in sensory, cognitive and physical user capabilities. These variations may be co-occurring and rapidly changing leading to a demanding design environment. Recent research developments have addressed these issues in the context of: governance and policy; daily living activities; the workplace; the built environment, Interactive Digital TV and Mobile communications. Increasingly, a need has been identified for a multidisciplinary approach that reconciles the diverse and sometimes conflicting demands of Design for Ageing and Impairment, Usability and Accessibility and Universal Access. CWUAAT provides a platform for such a need. This book is intended for researchers, postgraduates, design practitioners, clinical practitioners, and design teachers.

**Engineering for Sustainable Development** - International Centre for Engineering Education 2021-03-02

The report highlights the crucial role of engineering in achieving each of the 17 SDGs. It shows how equal opportunities for all is key to ensuring an inclusive and gender balanced profession that can better respond to the shortage of engineers for implementing the SDGs. It provides a snapshot of the engineering innovations that are shaping our world, especially emerging technologies such as big data and AI, which are crucial for addressing the pressing challenges facing humankind and the planet. It analyses the transformation of engineering education and capacity-building at the dawn of the Fourth Industrial Revolution that will enable engineers to tackle the challenges ahead. It highlights the global effort needed to address the specific regional disparities, while summarizing the trends of engineering across the different regions of the world.

**Innovations in Hospice Architecture** - Stephen Verderber 2003-09-02

Providing much-needed focus on hospice projects in the context of unprecedented rates of societal ageing, this new reference book presents an overview of major recent developments in this rapidly evolving building type. The authors present an overview of the historical origins of the contemporary hospice and the diverse variations on the basic premise of hospice care, and offer a series of case studies of exemplary hospices. The most innovative work in this area over the past decade has been in Japan, the US, Canada and the UK, and the authors describe and analyze examples both as individual projects and as comparable yet differing approaches. Hospice Architecture will be essential reading for anyone involved in the planning, design and construction of hospices.

**Occupational Therapy** - Meral Huri 2017-07-05

This new book presents the growing occupational therapy knowledge and clinical practice. Occupational therapy, as a health profession, is concerned with preserving well-being through occupations, and its main goal is to help people participate in the activities of daily living. This is achieved by working with people to improve their ability to engage in the occupations they want to engage in or by changing the occupation or the environment to better support their occupational engagement. The topic of the book has been structured on occupational therapy framework and reflects new research, techniques, and occupational therapy trends. This useful book will help students, occupational therapy educators, and professionals to connect occupational therapy theories and the evidence-based clinical practice.

**Toxicity and Hazard of Agrochemicals** - Marcelo Larramendy 2015-07-22

This edited book, Toxicity and Hazard of Agrochemicals, is intended to provide an overview of toxicology that examines the hazardous effects of common agrochemicals employed every day in our agricultural practices. Furthermore, it is hoped that the information in the present book will be of value to those directly engaged in the handling and use of agrochemicals and that this book will continue to meet the expectations and needs of all interested in the different aspects of human and environmental risk toxicities.

**Bringing User Experience to Healthcare Improvement** - Paul Bate 2007

Offering recommendations for the future and discussion points, this book explores the underlying concepts, methods and practices for experience-based design, applying a user-focused approach to healthcare systems.

**Healing Gardens** - Clare Cooper Marcus 1999-06-15

Although the healing qualities of nature have been recognized and relied on for centuries as a valuable part of convalescence, recent history has seen nature's therapeutic role virtually eclipsed by the technological dominance of modern medicine. As the twentieth century comes to a close and the medical community reacknowledges the importance of the environment to recovery, the healing garden is emerging as a supplement to drug- or technology-based treatments. Healing Gardens celebrates this renewed interest in nature as a catalyst for healing and renewal by examining the different therapeutic benefits of healing gardens and offering essential design guidance from experts in the field. Unique and comprehensive, Healing Gardens provides up-to-date coverage of research findings, relevant design principles and approaches, and best practice examples of different types of healing gardens. It begins by exploring what current research reveals about the connection between nature, human stress reduction, and medical outcomes. It then presents case studies and design guidelines for outdoor spaces in medical settings that include general, psychiatric, and children's hospitals as well as hospices, nursing homes, and Alzheimer's facilities. Historical information, literature reviews, and studies on use are included for each type of outdoor space covered, offering important insights into what works in healing gardens-and what doesn't. Generously supplemented with photographs, site plans, anecdotes, and more, Healing Gardens is an invaluable practical guide for landscape architects and others involved in creating and maintaining medical facilities, and an extremely useful reference for those responsible for patient care. A unique and comprehensive

look at the therapeutic effects and design of healing gardens For more and more people, the shortest road to recovery is the one that leads through a healing garden. Combining up-to-date information on the therapeutic benefits of healing gardens with practical design guidance from leading experts in the field, Healing Gardens is an important resource for landscape architects and others working in this emerging area. With the help of site plans, photographs, and more, it presents design guidelines and case studies for outdoor spaces in a range of medical settings, including: \* Acute care general hospitals. \* Psychiatric hospitals. \* Children's hospitals. \* Nursing homes. \* Alzheimer's facilities. \* Hospices.

**AI and Learning Systems** - Konstantinos Kyprianidis 2021-02-17

Over the last few years, interest in the industrial applications of AI and learning systems has surged. This book covers the recent developments and provides a broad perspective of the key challenges that characterize the field of Industry 4.0 with a focus on applications of AI. The target audience for this book includes engineers involved in automation system design, operational planning, and decision support. Computer science practitioners and industrial automation platform developers will also benefit from the timely and accurate information provided in this work. The book is organized into two main sections comprising 12 chapters overall: •Digital Platforms and Learning Systems •Industrial Applications of AI

**Smart Cities and Construction Technologies** - Sara Shirowzhan 2020-05-13

This book includes nine chapters presenting the outcome of research projects relevant to building, cities, and construction. A description of a smart city and the journey from conventional to smart cities is discussed at the beginning of the book. Innovative case studies of underground cities and floating city bridges are presented in this book. BIM and GIS applications on different projects, and the concept of intelligent contract and virtual reality are discussed. Two concepts relevant to conventional buildings including private open spaces and place attachments are also included, and these topics can be upgraded in the future by smart technologies.

Spatial Modeling and Assessment of Environmental Contaminants - Pravat Kumar Shit 2021-02-05

This book demonstrates the measurement, monitoring and mapping of environmental contaminants in soil &

sediment, surface & groundwater and atmosphere. This book explores state-of-art techniques based on methodological and modeling in modern geospatial techniques specifically focusing on the recent trends in data mining techniques and robust modeling. It also presents modifications of and improvements to existing control technologies for remediation of environmental contaminants. In addition, it includes three separate sections on contaminants, risk assessment and remediation of different existing and emerging pollutants. It covers major topics such as: Radioactive Wastes, Solid and Hazardous Wastes, Heavy Metal Contaminants, Arsenic Contaminants, Microplastic Pollution, Microbiology of Soil and Sediments, Soil Salinity and Sodicity, Aquatic Ecotoxicity Assessment, Fluoride Contamination, Hydrochemistry, Geochemistry, Indoor Pollution and Human Health aspects. The content of this book will be of interest to researchers, professionals, and policymakers whose work involves environmental contaminants and related solutions.

**Quality and Safety in Anesthesia and Perioperative Care** - Keith J. Ruskin 2016

Quality and Safety in Anesthesia and Perioperative Care offers practical suggestions for improving quality of care and patient safety in the perioperative setting. Chapters are organized into sections on clinical foundations and practical applications, and emphasize strategies that support reform at all levels, from operating room practices to institutional procedures. Written by leading experts in their fields, chapters are based on accepted safety, human performance, and quality management science and they illustrate the benefits of collaboration between medical professionals and human factors experts. The book highlights concepts such as situation awareness, staff resource management, threat and error management, checklists, explicit practices for monitoring, and safety culture.

Quality and Safety in Anesthesia and Perioperative Care is a must-have resource for those preparing for the quality and safety questions on the American Board of Anesthesiology certification examinations, as well as clinicians and trainees in all practice settings.

**Hospital Outdoor Landscape Design** - Gökçen Firdevs Yücel 2013

Hospital Outdoor Landscape Design.