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Biometeorology for Adaptation to Climate Variability and Change - Kristie L. Ebi 2008-12-17 Biometeorology continues to grow as a discipline. It is increasingly recognised for its importance in providing science of relevance to society and well being of the environment. This book is the first in a new book series on Biometeorology. The purpose of the new series is to communicate the interdisciplinary philosophy and science of biometeorology to as wide an audience as possible, introduce scientists and policy makers to the societal relevance of and recent developments in its s-fields and demonstrate how a biometeorological approach can provide insights to the understanding and possible solution of cross-cutting environmental issues. One such cross-cutting environmental issue is climate change. While the literature on the science of climate change, climate change mitigation and the impacts of climate change is voluminous, that on adaptation to climate change is meagre in comparison. The purpose of this book is to partly redress this imbalance by providing insights from a biometeorological perspective. The book acknowledges that society has a long history of adapting to the impacts associated with climatic variability and change but makes the point that climate change poses a real threat to

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already strained coping systems. Therefore there is a need to realign human use systems with changing climate conditions.

Adaptation Measures for Urban Heat Islands - Hideki Takebayashi 2020-03-20

Adaptation Measures for Urban Heat Islands helps the reader understand the relative performance of these adaptation measures, methods and analysis relating to their creation and maintenance, evaluation methods, and the role of policy and governance in implementing them. A suite of case studies is included on these urban or metropolitan areas that are significantly warmer than their surrounding rural areas due to human activities. In recent years, a suite of adaptation measures have been developed to mitigate the urban heat island phenomena. Provides a range of concrete implementation methods Assesses relative performance of adaptation measures and countermeasure technologies Establishes methods for human thermal environmental interventions Reviews adaptation cities selected for excellent energy performance and thermal comfort indicators

Thermoregulation and Human Performance - Frank E. Marino 2008-01-01

Over the last decades, our understanding of the relationship between thermoregulation, performance and fatigue has changed dramatically. New advances in technology and methodology permitted the study of rising and decreasing body temperature on metabolism and provided insights into the role the nervous system plays in determining human performance under thermally stressful situations. Further analysis of previous research has been necessary in addition to considering theories derived from complimentary areas of research such as evolutionary biology, anthropology and cellular and molecular biology. This publication provides different interpretations of recent research for a better understanding of the

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limitations of thermoregulation. In particular, it presents evidence for the human's ability to anticipate thermal limits and adjust their performance accordingly so that cellular homeostasis is preserved. Further, the book is featuring the inclusion of the effect of reduced body temperature on muscular performance and endurance which today is a popular method for providing avenues of reduced thermal strain and recovery from exercise. This publication will be an essential read for those working in thermal medicine, exercise physiology and human performance.

Thermal Analysis--human Comfort--indoor Environments - B. W. Mangum 1977

Human Thermal Sensation and Comfort in Transient and Non-uniform Thermal Environments - Hui Chang 2003

Climatological Bulletin - McGill University. Department of Geography 1981

The Indoor Environment Handbook - Philomena Bluyssen 2009-12-01

Winner of the Choice Outstanding Academic Titles of 2010 award. Ensuring that buildings are healthy and comfortable for their occupants is a primary concern of all architects and building engineers. This highly practical handbook will help make that process more efficient and effective. It begins with a guide to how the human body and senses react to different indoor environmental conditions, together with basic information on the parameters of the indoor environment and problems that can occur. It then moves on to give a background to the development of the study and control of the indoor environment, examining the main considerations (including thermal, lighting, indoor air and sound-related aspects) for a healthy and comfortable indoor environment and discussing the drivers for change in the field. The final section presents a new approach towards health

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and comfort in the indoor environment, where meeting the wishes and demands of the occupants with a holistic strategy becomes the over-riding priority. The book is filled with useful facts, figures and analysis, and practical methods that designers who are keen to assess and improve the user experience of their buildings will find invaluable.

Human Heat Stress - Ken Parsons 2019-02-05

Thousands of people continue to die from heat. Heat illnesses and advice for preventing heat casualties at work, during heatwaves, sport and the effects of global warming are described. A new perspective on thermoregulation integrates physiological and psychophysical regulated variables. Heat stress indices, the WBGT and the SWreq are presented. It is time to understand and routinely use computer simulations of people in hot conditions. How to understand how a model can be constructed is also described. This book provides an accessible, concise and comprehensive coverage into how people respond to heat and how to predict and avoid heat causalities. A practical productivity model, and Burn thresholds, complete the book which begins with up to date knowledge on measurement of heat stress, heat strain, metabolic rate and the thermal properties and influences of clothing. Features Provides methods and regulations through international standards Illustrates the WBGT and analytical heat stress indices and how to construct a thermal model Discusses the role of clothing on heat stress and thermal strain Presents a new model for predicting productivity in the heat Offers a new method of human thermoregulation Considers heat illness and prevention during heatwaves and in global warming

Heat and Moisture Transfer between Human Body and Environment - Jean-Paul Fohr 2015-11-04

Human adaptation under cold or hot temperatures has always required specific fabrics for

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clothing. Sports or protective garment companies propose to improve performance or safety. Behind thermal comfort lays many physical/physiological topics: human thermoregulation loop, natural or forced convection, heat and vapor transfer through porous textile layers, solar and infrared radiation effects. This book leads through progressive and pedagogic stages to discern the weight of all the concerned physical parameters.

Indoor Thermal Comfort - Francesca Romana d'Ambrosio Alfano 2020-12-07

As the century begins, natural resources are under increasing pressure, threatening public health and development. As a result, the balance between man and nature has been disrupted, with climatic changes whose effects are starting to be irreversible. Due to the relationship between the quality of the indoor built environment and its energy demand, thermal comfort issues are still relevant in the disciplinary debate. This is also because the indoor environment has a potential impact on occupants' health and productivity, affecting their physical and psychological conditions. To achieve a sustainable compromise in terms of comfort and energy requirements, several challenging questions must be answered with regard to design, technical, engineering, psychological, and physiological issues and, finally, potential interactions with other IEQ issues that require a holistic way to conceive the building envelope design. This Special Issue collected original research and review articles on innovative designs, systems, and/or control domains that can enhance thermal comfort, work productivity, and wellbeing in a built environment, along with works considering the integration of human factors in buildings' energy performance.

Handbook of Aviation and Space Medicine - Nicholas Green 2019-04-18

This highly practical guide is

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ideal for any medical professional who deals with the aerospace environment or is involved in the healthcare of aircrew or individuals preparing for or returning from aerospace travel. The book covers all the main aspects of aerospace medicine, including the salient physiology and clinical aspects in note form for rapid assimilation, and makes plentiful use of figures, algorithms and tables throughout. Key Features: • Comprehensive covering all aspects of clinical aerospace medicine and relevant physiology • Note-based for rapid reference in the clinical setting • Highly practical with illustrations and tables supporting the text throughout • From a highly experienced international team of editors and contributors • Ideal as a handbook companion, complementing the definitive reference Ernsting's Aviation and Space Medicine, for use 'on the go' The book will be an indispensable companion to all civil and military aviation medicine practitioners including those preparing for professional qualifying examinations, and a useful aid for other physicians with an interest in aviation medicine or who are required to inform patients regularly regarding the likely effects of flight, including family practitioners and hospital doctors, physiologists with an interest in the area and occupational and public health personnel.

Textiles and Human Thermophysiological Comfort in the Indoor Environment - Radostina A. Angelova 2015-10-05

Textiles and Human Thermophysiological Comfort in the Indoor Environment delivers a methodical assessment of textile structures for various applications in the indoor environment with respect to the thermophysiological comfort of the inhabitants. The book begins by offering an overview of the role of indoor textiles and clothing as a barrier betwee

Thermal Comfort in the Workplace - Great Britain.

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Health and Safety Executive 1999

Looks at what is meant by thermal comfort in the workplace and what the law says. It gives guidance to employers on the steps they can take to ensure a comfortable temperature for their employees during hot and cold weather. It also suggests some standards that can be used and points the reader towards sources of further information and help. Deals with most indoor workplaces but does not cover working in extreme conditions, hot processes, humid conditions or work requiring personal protective clothing. Contents: What is thermal comfort? What can you do to ensure thermal comfort? Some simple ways to ensure thermal comfort in cold weather; What the law requires you, as an employer, to do; Where to find guides or standards on thermal comfort.

Safety and Health at Work - 1996

Climate Change, the Indoor Environment, and Health - Institute of Medicine 2011-10-01

The indoor environment affects occupants' health and comfort. Poor environmental conditions and indoor contaminants are estimated to cost the U.S. economy tens of billions of dollars a year in exacerbation of illnesses like asthma, allergic symptoms, and subsequent lost productivity. Climate change has the potential to affect the indoor environment because conditions inside buildings are influenced by conditions outside them. Climate Change, the Indoor Environment, and Health addresses the impacts that climate change may have on the indoor environment and the resulting health effects. It finds that steps taken to mitigate climate change may cause or exacerbate harmful indoor environmental conditions. The book discusses the role the Environmental Protection Agency (EPA) should take in informing the public, health professionals, and those in the building industry about potential risks

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and what can be done to address them. The study also recommends that building codes account for climate change projections; that federal agencies join to develop or refine protocols and testing standards for evaluating emissions from materials, furnishings, and appliances used in buildings; and that building weatherization efforts include consideration of health effects. Climate Change, the Indoor Environment, and Health is written primarily for the EPA and other federal agencies, organizations, and researchers with interests in public health; the environment; building design, construction, and operation; and climate issues.

Human Thermal Environments - Ken Parsons 2007-03-22

Our responses to our thermal environment have a considerable effect on our performance and behavior, not least in the realm of work. There has been considerable scientific investigation of these responses and formal methods have been developed for environmental evaluation and design. In recent years these have been developed to the extent that detailed national and international standards of practice have now become feasible. This new edition of Ken Parson's definitive text brings us back up to date. He covers hot, moderate and cold environments, and defines these in terms of six basic parameters: air temperature, radiate temperature, humidity, air velocity, clothing worn, and the person's activity. There is a focus on the principles and practice of human response, which incorporates psychology, physiology and environmental physics with applied ergonomics. Water requirements, computer modeling and computer-aided design are brought in, as are current standards. Special populations, such as the aged or disabled and specialist environments such as those found in vehicles are also considered. This book continues to be the standard text for the design of environments for humans to

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live and work safely, comfortably and effectively, and for the design of materials which help the same people cope with their environments.

Man and His Thermal Environment - William Bruce 1960

"This report is concerned with the physiological adjustments of man and his subjective assessment of his environment as related to the heating, ventilating and air-conditioning of buildings. Its purpose is to present a review of the literature on the subject, to interpret the data where possible in terms of Canadian conditions and requirements, and to indicate those particular aspects in which further investigation by laboratory and field studies could yield benefits to building practice in Canada, through the achievement of indoor environmental conditions which approach the optimum. The design and construction of buildings for human occupancy are affected by many physiological factors, the most important being the provision for a controlled and adequate rate of heat loss from the human body. Excessive or greatly deficient rates of heat loss can produce harmful physiological stress in the body. Even minor deviations, if they cannot be prevented by the body vasomotor heat regulating mechanism, will cause marked sensations of discomfort. Control of the heat loss by adjustments in the physical environment is effected by regulation of air temperature, air motion, radiation exchange of the human body with the surrounding surfaces, and humidity. Such other factors as activity, type and amount of clothing, acclimatization, age, sex, and state of health of the occupants, as well as the rate of ventilation, the sterility of the air and its freedom from dust, fumes, and odors are also of considerable importance in the establishment of an environment conducive to human comfort and well-being."--Introduction.

Effect of Environment on Nutrient Requirements of

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Domestic Animals - National Research Council 1981-02-01

Human Thermal Environments - Ken Parsons 2002-12-26

Our responses to our thermal environment have a considerable effect on our performance and behavior, not least in the realm of work. There has been considerable scientific investigation of these responses and formal methods have been developed for environmental evaluation and design. In recent years these have been developed to the extent that detailed national and international standards of practice have now become feasible. This new edition of Ken Parson's definitive text brings us back up to date. He covers hot, moderate and cold environments, and defines these in terms of six basic parameters: air temperature, radiate temperature, humidity, air velocity, clothing worn, and the person's activity. There is a focus on the principles and practice of human response, which incorporates psychology, physiology and environmental physics with applied ergonomics. Water requirements, computer modeling and computer-aided design are brought in, as are current standards. Special populations, such as the aged or disabled and specialist environments such as those found in vehicles are also considered. This book continues to be the standard text for the design of environments for humans to live and work safely, comfortably and effectively, and for the design of materials which help the same people cope with their environments.

The Dynamics and Mechanism of Human Thermal Adaptation in Building Environment - Maohui Luo 2019-11-06

This book focuses on human adaptive thermal comfort in the building environment and the balance between reducing building air conditioning energy and improving occupants' thermal comfort. It examines the mechanism of human thermal adaptation using a newly developed

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adaptive heat balance model, and presents pioneering findings based on an on online survey, real building investigation, climate chamber experiments, and theoretical models. The book investigates three critical issues related to human thermal adaptation: (i) the dynamics of human thermal adaptation in the building environment; (ii) the basic rules and effects of human physiological acclimatization and psychological adaptation; and (iii) a new, adaptive, heat balance model describing behavioral adjustment, physiological acclimatization, psychological adaptation, and physical improvement effects. Providing the basis for establishing a more reasonable adaptive thermal comfort model, the book is a valuable reference resource for anyone interested in future building thermal environment evaluation criteria.

Outdoor Thermal Comfort in Urban Environment - Kevin Ka-Lun Lau 2021-09-16

This book highlights the importance of outdoor thermal comfort for improving urban living quality in the context of urban planning and urban geometry design. It introduces readers to a range of assessment methods and applications of outdoor thermal comfort and addresses urban geometry and thermal environment at the neighbourhood scale using real-world examples and parametric studies. In addition, the subjective evaluations by urban dwellers and numerical modelling tools introduced in this book provide not only a comprehensive assessment of outdoor thermal comfort but also an integrated approach to using thermal comfort indicators as a standard in high-density cities. Given its scope, the book offers a valuable guide for urban climate researchers, urban planners, and designers, and policymakers pursuing more liveable urban environments.

Applications of the Universal Thermal Climate Index UTCI in Biometeorology - Eduardo L. Krüger 2021-07-22

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This book introduces the UTCI (Universal Thermal Climate Index) and summarizes progress in this area. The UTCI was developed as part of the European COST Action Program and first announced to the scientific community in 2009. Since then, a decade has followed of applicability tests and research results, as well as knowledge gained from applying the UTCI in human adaptation and thermal perception. These findings are of interest to researchers in the interdisciplinary areas of biometeorology, climatology and urban planning. The book summarizes this progress, discussing the limitations found and provides pointers to future developments. It also discusses UTCI applications in the areas of human biometeorology and urban planning including possibilities of using UTCI and similar indices in climate-responsive urban planning. The book's message is illustrated with many case studies from the real world. Chapter 10 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Working on a Warmer Planet - 2020

Advanced Environmental Exercise Physiology - Stephen S. Cheung 2021-03-16 Advanced Environmental Exercise Physiology, Second Edition, offers physiology students and exercise science professionals a complete look at the major topics and debates in the field of environmental physiology. In this second edition, Dr. Stephen Cheung is joined by the coauthor Dr. Phil Ainslie, who has extensive professional expertise in mountaineering and high-altitude physiology and has led numerous high-altitude research expeditions. Among the issues explored in this text are the effects of heat, hydration, and cold in the thermal environment; diving, altitude training, and other pressure effects on the human system; and the influences that pollution and air quality have on exercise. The text also

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explores the microgravity (space) environment and chronobiological rhythms. The second edition includes new chapters on heat adaptation and therapy, breath-hold diving, physiological adjustments to acute hypoxia, sex differences in environmental response, and cross-adaptation. Through Advanced Environmental Exercise Physiology, Second Edition, readers will learn the following: The initial physiological responses upon exposure to an environment that a person is not adapted to How the body adapts to repeated exposure to an environment How various environments affect the ability to exercise and work Individual variability in response to stressful environments Countermeasures that people can take to minimize the impact of environmental stressors Advanced Environmental Exercise Physiology, Second Edition, contains twice the number of figures and illustrations from the previous edition to offer better visualization and explanation of the content. New learning aids include chapter objectives, chapter summaries, and review questions to enhance reader comprehension. Sidebars throughout the text highlight lively areas of current research and debate to stimulate further investigation. Supported by evidence-based information and numerous references, Advanced Environmental Exercise Physiology, Second Edition, addresses the primary environmental factors affecting people when they are working, exercising, and competing in sport. By linking research with recommendations for real-world situations, this text serves as an invaluable resource for students and professionals alike.

Human Thermal Environments - Ken Parsons 2014-04-09

In the ten years since the publication of the second edition of Human Thermal Environments: The Effects of Hot, Moderate, and Cold Environments on Human Health, Comfort, and

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Performance, Third Edition, the world has embraced electronic communications, making international collaboration almost instantaneous and global. However, there is still a need for a compilation of up-to-date information and best practices. Reflecting current changes in theory and applications, this third edition of a bestseller continues to be the standard text for the design of environments for humans to live and work safely, comfortably, and effectively, and for the design of materials that help people cope with their environments. See What's New in the Third Edition: All existing chapters significantly updated Five new chapters Testing and development of clothing Adaptive models Thermal comfort for special populations Thermal comfort for special environments Extreme environments Weather Outdoor environments and climate change Fun runs, cold snaps, and heat waves The book covers hot, moderate, and cold environments, and defines them in terms of six basic parameters: air temperature, radiant temperature, humidity, air velocity, clothing worn, and the person's activity. It focuses on the principles and practice of human response, which incorporates psychology, physiology, and environmental physics with applied ergonomics. The text then discusses water requirements, computer modeling, computer-aided design, and current standards. A systematic treatment of thermal environments and how they affect humans in real-world applications, the book links the health and engineering aspects of the built environment. It provides you with updated tools, techniques, and methods for the design of products and environments that achieve thermal comfort.

Human Thermal Environments - Ken Parsons 1993-10-27

Environments are assessed and environmental limits defined often only in terms of air temperature, which is insufficient; in most situations the interaction of air temperature with five other

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factors - radiant temperature; humidity; air movement; activity-generated metabolic heat; and clothing is central to that environment's evaluation.; In this book, Ken Parsons focuses on the principles and practice of human response to thermal environments. He incorporates psychology, physiology and environmental physics with an applied ergonomic approach. The book details important new developments in determining the thermal properties of clothing, computer modelling and computer-aided environmental design, and offers practical applications and case studies.

Human Heat Stress - Ken Parsons 2019-02-05

Thousands of people continue to die from heat. Heat illnesses and advice for preventing heat casualties at work, during heatwaves, sport and the effects of global warming are described. A new perspective on thermoregulation integrates physiological and psychophysical regulated variables. Heat stress indices, the WBGT and the SWreq are presented. It is time to understand and routinely use computer simulations of people in hot conditions. How to understand how a model can be constructed is also described. This book provides an accessible, concise and comprehensive coverage into how people respond to heat and how to predict and avoid heat causalities. A practical productivity model, and Burn thresholds, complete the book which begins with up to date knowledge on measurement of heat stress, heat strain, metabolic rate and the thermal properties and influences of clothing. Features Provides methods and regulations through international standards Illustrates the WBGT and analytical heat stress indices and how to construct a thermal model Discusses the role of clothing on heat stress and thermal strain Presents a new model for predicting productivity in the heat Offers a new method of human thermoregulation Considers heat illness and prevention

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during heatwaves and in global warming

Heat Stress in Sport and Exercise - Julien D. Périard 2019-03-06

The book is designed to provide a flowing description of the physiology of heat stress, the illnesses associated with heat exposure, recommendations on optimising health and performance, and an examination of Olympic sports played in potentially hot environmental conditions. In the first section the book examines how heat stress effects performance by outlining the basics of thermoregulation and how these responses impact on cardiovascular, central nervous system, and skeletal muscle function. It also outlines the pathophysiology and treatment of exertional heat illness, as well as the role of hydration status during exercise in the heat. Thereafter, countermeasures (e.g. cooling and heat acclimation) are covered and an explanation as to how they may aid in decreasing the incidence of heat illness and minimise the impairment in performance is provided. A novel and particular feature of the book is its inclusion of sport-specific chapters in which the influence of heat stress on performance and health is described, as well as strategies and policies adopted by the governing bodies in trying to offset the deleterious role of thermal strain. Given the breadth and scope of the sections, the book will be a reference guide for clinicians, practitioners, coaches, athletes, researchers, and students.

Environmental Ergonomics - The Ergonomics of Human Comfort, Health, and Performance in the Thermal Environment - Yutaka Tochihara 2005-04-02

Environmental Ergonomics addresses the problems of maintaining human comfort, activity and health in stressful environments. Its subject areas include thermal environments, illumination, noise and hypo- and hyperbaric environments. The book concentrates

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fundamentally on the way the thermal environment has affected human comfort, health and performance from the age of cave-dwellings to our age of skyscrapers. This book contains only papers selected from the 10th ICEE held in Japan 23-27 September 2002. The ICEE has been held biannually since 1982, and has firmly established itself as the world's most distinguished conference in its field, offering the ideal forum for research scientists, medical doctors, engineers, administrators, technicians, healthcare professionals and students to share their work and ideas. Selected papers from the 10th International Conference on Environmental Ergonomics held in Japan, 23-27 September 2002. They have been revised and peer-reviewed. Papers included in this text have been widely recognised as the catalyst for the recent advances witnessed in Environmental Ergonomics in Asia. They strike a balance between academia and industries' views on environmental ergonomics. Add this volume to your copy of the Elsevier Ergonomics Book Series.

Adaptive Thermal Comfort: Principles and Practice - Fergus Nicol 2012-03-15

The fundamental function of buildings is to provide safe and healthy shelter. For the fortunate they also provide comfort and delight. In the twentieth century comfort became a 'product' produced by machines and run on cheap energy. In a world where fossil fuels are becoming ever scarcer and more expensive, and the climate more extreme, the challenge of designing comfortable buildings today requires a new approach. This timely book is the first in a trilogy from leaders in the field which will provide just that. It explains, in a clear and comprehensible manner, how we stay comfortable by using our bodies, minds, buildings and their systems to adapt to indoor and outdoor conditions which change with the weather and the climate. The book is in two sections. The first

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introduces the principles on which the theory of adaptive thermal comfort is based. The second explains how to use field studies to measure thermal comfort in practice and to analyze the data gathered. Architects have gradually passed responsibility for building performance to service engineers who are largely trained to see comfort as the 'product', designed using simplistic comfort models. The result has contributed to a shift to buildings that use ever more energy. A growing international consensus now calls for low-energy buildings. This means designers must first produce robust, passive structures that provide occupants with many opportunities to make changes to suit their environmental needs. Ventilation using free, natural energy should be preferred and mechanical conditioning only used when the climate demands it. This book outlines the theory of adaptive thermal comfort that is essential to understand and inform such building designs. This book should be required reading for all students, teachers and practitioners of architecture, building engineering and management – for all who have a role in producing, and occupying, twenty-first century adaptive, low-carbon, comfortable buildings.

A Selective Bibliography on Environmental Control and Habitability of Survival Shelters - American Society of Heating, Refrigerating and Air-Conditioning Engineers 1963

Seasonal Forecasts, Climatic Change and Human Health - Madeleine C. Thomson 2008-04-30

Awareness that many aspects of public health are influenced by climate is growing dramatically. Results presented at the Wengen conference make clear that the science and art of integrating climate knowledge into the control of climate sensitive diseases on a year to year time frame, as well as careful assessments of the potential impacts of climate

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change on health outcomes over longer time frames, is advancing rapidly. This book provides a snapshot of these emerging themes.

Proceedings of the XIVth Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society - Human Factors and Ergonomics Society. Annual meeting 2000

Thermal Comfort in Naturally-ventilated and Air-conditioned Classrooms in the Tropics - Alison Grace Kwok 1997

Occupational Exposure to Hot Environments - National Institute for Occupational Safety and Health 1986

Nutritional Needs in Cold and High-Altitude Environments - Institute of Medicine 1996-05-15

This book reviews the research pertaining to nutrient requirements for working in cold or in high-altitude environments and states recommendations regarding the application of this information to military operational rations. It addresses whether, aside from increased energy demands, cold or high-altitude environments elicit an increased demand or requirement for specific nutrients, and whether performance in cold or high-altitude environments can be enhanced by the provision of increased amounts of specific nutrients.

Environmental Factors Affecting Office Worker Performance - Nigel Oseland 1999

Niosh Criteria for a Recommended Standard: Occupational Exposure to Heat and Hot Environments - National Institute for Occupational Safety and Health (U.S.) 2018-08-03

Occupational exposure to heat can result in injuries, disease, reduced productivity, and death. To address this hazard, the National Institute for

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Occupational Safety and Health (NIOSH) has evaluated the scientific data on heat stress and hot environments and has updated the Criteria for a Recommended Standard: Occupational Exposure to Hot Environments [NIOSH 1986a]. This updated guidance includes information about physiological changes that result from heat stress, and relevant studies such as those on caffeine use, evidence to redefine heat stroke, and more. Related products: Weather & Climate collection is available here: https://bookstore.gpo.gov/catalog/weather-climate Emergency Management & First Responders can be found here: https://bookstore.gpo.gov/catalog/emergency-management-first-responders Fire Management collection is available here: https://bookstore.gpo.gov/catalog/fire-management

Human Thermal Comfort - Ken Parsons 2019-11-20

Thermal comfort is a desirable state familiar to all people. Providing inspirational indoor and outdoor environments that provide thermal comfort, in the context of energy use and climate change, is a challenge for the 21st century. This book provides an up-to-date, comprehensive coverage of thermal comfort from principles and theory to practical application. The book begins with current knowledge and understanding of thermal comfort and its application to providing thermal conditions for indoor and outdoor environments. It integrates and presents new ideas to provide a comprehensive model of thermal comfort so that we can move on from the 20th and early 21st century and provide a focus for developments for future decades. This book will be of interest to practitioners and students and anyone involved with fields such as environmental design, physiology, ergonomics, human factors, industrial hygiene, architecture, health and safety and air conditioning. • Provides current thermal comfort standards and regulations • Describes the PMV, PPD, ET* and SET thermal comfort

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indices • Discusses adaptive thermal comfort, adaptive opportunity and explains why we have not moved towards a more dynamic and interactive approach to providing thermal comfort • Presents a new model relating thermal discomfort to performance • Shows how to construct a computer model of thermal comfort • Offers how to conduct a thermal comfort survey Human Thermal Comfort provides new ideas for achieving thermal comfort for offices, vehicles, atriums, and plazas of the future.

Archaeology in Oceania - 2005

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