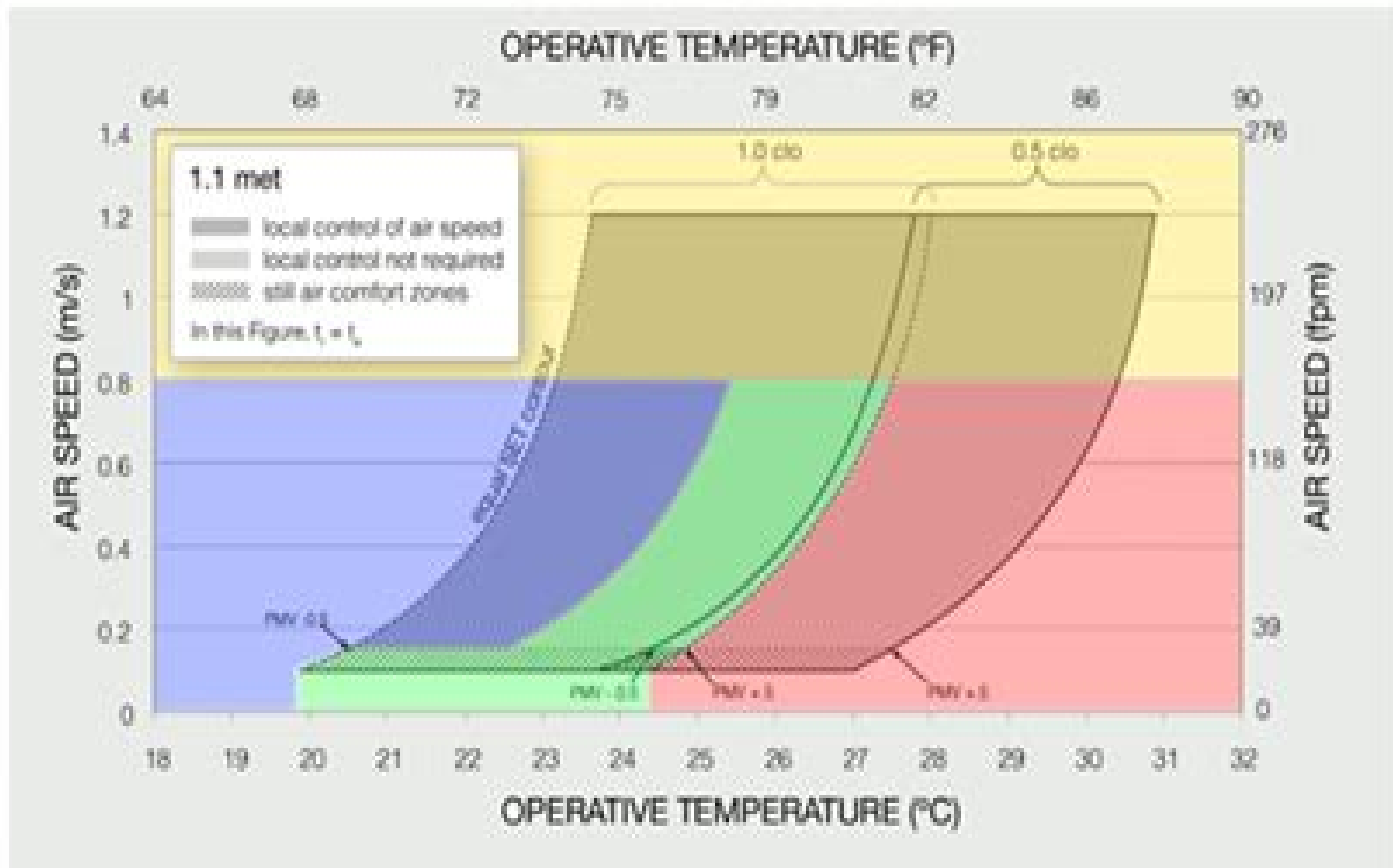




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Ashrae Thermal Comfort Parameters Design Guide

**Michael Humphreys, Fergus
Nicol, Susan Roaf**



Ashrae Thermal Comfort Parameters Design Guide:

Routledge Handbook of Resilient Thermal Comfort Fergus Nicol, Hom Bahadur Rijal, Susan Roaf, 2022-04-19 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 Standard Methods for Thermal Comfort Assessment of Clothing Ivana Špelić, Alka Mihelić-Bogdanić, Anica Hursa Šajatović, 2019-06-20 Providing detailed analysis of the thermal comfort assessment of clothing as the basis for developing standards this book discusses the thermal protective role of clothing as a way of modelling heat transfer from the body general thermal regulation of humans and the importance of globally accepted test methods and standards to improve quality New materials and discoveries in the study of thermal comfort necessitate the need for standard improvements and update The development of international standards and the unification of testing methods is of crucial significance to ensure cost reduction and health protection The book promotes instruments methods implementation of unified specifications and the definition of standards so that a clear quality management system can be established for both production systems and testing methods It discusses standards in ergonomics of the thermal environment clothing thermal characteristics and subjective assessment of thermal comfort which allows for systematic control of the measuring methods and the services and final products that are distributed on the global market This book is aimed at industry professionals researchers and advanced students working in textile and clothing engineering comfort testing and ergonomics *Building Performance Simulation for Design and Operation* Jan L.M. Hensen, Roberto Lamberts, 2019-04-24 When used appropriately building performance simulation has the potential to reduce the environmental impact of the built environment to improve indoor quality and productivity as well as to facilitate future innovation and technological progress in construction Since publication of the first edition of Building Performance

Simulation for Design and Operation the discussion has shifted from a focus on software features to a new agenda which centres on the effectiveness of building performance simulation in building life cycle processes This new edition provides a unique and comprehensive overview of building performance simulation for the complete building life cycle from conception to demolition and from a single building to district level It contains new chapters on building information modelling occupant behaviour modelling urban physics modelling urban building energy modelling and renewable energy systems modelling This new edition keeps the same chapter structure throughout including learning objectives chapter summaries and assignments Moreover the book Provides unique insights into the techniques of building performance modelling and simulation and their application to performance based design and operation of buildings and the systems which service them Provides readers with the essential concepts of computational support of performance based design and operation Provides examples of how to use building simulation techniques for practical design management and operation their limitations and future direction It is primarily intended for building and systems designers and operators and postgraduate architectural environmental or mechanical engineering students

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 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

Thermal Comfort Assessment of Buildings Salvatore Carlucci, 2013-05-24 A number of metrics for assessing human thermal response to climatic conditions have been proposed in scientific literature over the last decades

They aim at describing human thermal perception of the thermal environment to which an individual or a group of people is exposed. More recently a new type of discomfort index has been proposed for describing in a synthetic way long term phenomena. Starting from a systematic review of a number of long term global discomfort indices they are then contrasted and compared on a reference case study in order to identify their similarities and differences and strengths and weaknesses. Based on this analysis a new short term local discomfort index is proposed for the American Adaptive comfort model. Finally a new and reliable long term general discomfort index is presented. It is delivered in three versions and each of them is suitable to be respectively coupled with the Fanger, the European Adaptive and the American Adaptive comfort models.

Heating, Ventilating, and Air Conditioning Faye C. McQuiston, Jerald D. Parker, Jeffrey D. Spitler, 2004-08-06

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Environmental Ergonomics - The Ergonomics of Human Comfort, Health, and Performance in the Thermal Environment Yutaka Tochihara, Tadakatsu Ohnaka, 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 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 *Building Technology Publications* ,1983

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