

THE ATMOSPHERIC ENVIRONMENT

A study of comfort and performance

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Research Publications

The Atmospheric Environment A Study Of Comfort Performance

RJ Alexander



The Atmospheric Environment A Study Of Comfort Performance:

The Atmospheric Environment Andris Auliciems, 1972-12-15 In this study energy exchange processes and climatic influences are examined in relation to thermal comfort and work efficiency as exemplified in a schoolroom situation The investigation tests fundamental hypotheses on meteoropisms and optimal thermal environments and demonstrates how daily variations within atmospheric environments are considerably more important than had been previously suspected It also describes the experimental use of a variety of microclimatic instruments and thermal indices in conjunction with psychological tests of continuous mental performance The Atmospheric Environment treats a complex problem from a broad multi disciplinary standpoint and is of particular interest to climatologists psychologists teachers and educational administrators heating and ventilating engineers and to all concerned with environmental management Department of Geography Research Publications 8 Urbanization and the Atmospheric Environment in the Low Tropics Sham Sani, 1987

, **Applied Climatology** Russell D. Thompson, Allen Howard Perry, 1997 Focuses on the relationship between climate and a wide range of human activities and responses relating to health and comfort building design transport systems agriculture and fisheries tourism and social issues *Biometeorology for Adaptation to Climate Variability and Change* Kristie L. Ebi, Ian Burton, Glenn McGregor, 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 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 already strained coping systems Therefore there is a need to realign human use systems with changing climate conditions **WeBIOPATR2015 THE FIFTH INTERNATIONAL WeBIOPATR WORKSHOP & CONFERENCE PARTICULATE MATTER: RESEARCH AND MANAGEMENT** Milena Jovašević-Stojanović, Alena Bartonova, 2017-10-10 **Sains Malaysiana**, 1977 Advances in Building Energy Research Mat Santamouris, 2013-07-23 Several high quality scientific journals are published in the area of building energy and indoor outdoor environment however one has been missing *Advances in Building Energy Research* fills the gap I recommend ABER to all technical libraries research institutes and universities It should also be used by construction companies and those

manufacturing building materials and building products Professor Olli Seppänen President of REHVA Federation of Heating and Air conditioning Associations *Advances in Building Energy Research* is a unique index It will be an inexhaustible resource for energy related sciences and a continuous inspiration for architects around the world N Fintikakis Architect and Director of UIA ARES WP Architecture and Renewable Energy Sources *Advances in Building Energy Research* ABER offers state of the art information on the environmental science and performance of buildings linking new technologies and methodologies with the latest research on systems simulations and standards As stringently reviewed as a journal but with the breadth of a book this annual volume brings together invited contributions from the foremost international experts on energy efficiency and environmental quality of buildings Spanning a broad range of technical subjects this is a must have reference on global developments in the field suitable for architects and building engineers environmental engineers industry professionals students teachers and researchers in building science technical libraries and laboratories Proceedings of the International Conference on Smart and Sustainable Built Environment (SASBE 2024) Ali GhaffarianHoseini, Amirhosein Ghaffarianhoseini, Farzad Rahimian, Mahesh Babu Purushothaman, 2025-04-19 This book presents peer reviewed articles from the International Conference of Sustainable Development and Smart Built Environments SDSBE2024 held from 6-8 Nov at Auckland New Zealand It encapsulates cutting edge research in Sustainable Development and Smart Built Environments featuring global scholars Encompassing diverse themes the book explores sustainable urban development governance and policy emphasizing urban greening and climate resilience It delves into innovative approaches for sustainable transport intelligent infrastructure and community well being The integration of Data Science AI and IoT for optimizing built environments is a focal point alongside advancements in digital twins and OpenBIM Social aspects including equity and indigenous perspectives are explored along with health considerations in urban settings The proceedings serve as a comprehensive resource reflecting the multifaceted advancements driving sustainable and smart urban futures **An Indoor Air Quality Management Framework for Municipal Buildings in Developing Economies** Mpho Ndou, Clinton Ohis Aigbavboa, Wellington Didibhuku Thwala, Abdul-Majeed Mahamadu, 2025-05-06 This book delves into the pivotal issue of Indoor Air Quality IAQ management in municipal buildings within developing economies addressing a pressing need in today's digital age where individuals spend over 70% of their time indoors With a strong focus on enhancing environmental quality this book presents theoretical frameworks and practical recommendations designed explicitly for stakeholders in the higher education sector encompassing both public and private institutions As institutions strive to improve their learning environments this book aligns with global Sustainable Development Goals SDGs highlighting the vital connection between effective IAQ management and the health and well being of the institutional community including students and staff members It provides a comprehensive framework that advocates for improved IAQ management and emphasises the importance of quality education and lifelong learning Furthermore this book serves as a valuable resource for green building regulatory

bodies ensuring adherence to best practices in IAQ management within municipal buildings By providing actionable strategies grounded on recent literature the book is an essential guide for researchers and policymakers seeking to navigate the theoretical and empirical dimensions of IAQ management Moreover this book asserts that enhancing IAQ is necessary not only for regulatory compliance and community well being but also as a vital investment in the academic and operational success of municipal buildings in developing economies **Handbook of Environmental Psychology** Robert B.

Bechtel,Arza Churchman,2003-01-17 An international team of leading scholars explores the latest theories research and applications critical to environmental psychology Featuring the latest research and concepts in the field straight from the world s leading scholars and practitioners Handbook of Environmental Psychology provides a balanced and comprehensive overview of this rapidly growing field Bringing together contributions from an international team of top researchers representing a myriad of disciplines this groundbreaking resource provides you with a pluralistic approach to the field as an interdisciplinary effort with links to other disciplines Addressing a variety of issues and practice settings Handbook of Environmental Psychology is divided into five organized and accessible parts to provide a thorough overview of the theories research and applications at the forefront of environmental psychology today Part I deals with sharpening theories Part II links the subject to other disciplines Part III focuses on methods Part IV highlights applications and Part V examines the future of the field Defining the ongoing revolution in thinking about how the environment and psychology interact Handbook of Environmental Psychology is must reading for anyone coping directly with the attitudes beliefs and behaviors that are destroying our environment and putting our lives in jeopardy Topics include Healthy design Restorative environments Links to urban planning Contaminated environments Women s issues Environments for aging Climate weather and crime The history and future of disaster research Children s environments Personal space in a digital age Community planning

Sustainable Environmental Design in Architecture Stamatina Th. Rassia,Panos M. Pardalos,2012-02-02 Over the last few decades there have been dramatic improvements in the understanding and research of environmental design Numerous methods have been developed to enhance architectural design in order for it to be more energy efficient sustainable and health enhancing This book presents several theories and techniques that can be used to improve how buildings are engineered and designed in order to utilize more sustainable construction methods while promoting the health of the building s occupants Contributions to the study of environmental design have come from a diversity of fields including applied mathematics optimization computer science medical research psychology management science architecture and engineering The techniques developed in these areas of research can be used to increase building performance occupant satisfaction productivity and well being and reducing the incidence of health conditions and chronic diseases related to the use of a designed space This book provides architectural practitioners civil engineers as well as other interdisciplinary researchers with the techniques needed to design implement and test for sustainability and health promotion in new or

existing structures **Transforming Markets in the Built Environment** Susan Roaf,2012 There is an urgent need to build human capacity to make the often vulnerable and exposed buildings and communities we live and work in more resilient to the changing social economic and physical environments around us Extensive research has been done over the last decades on both mitigation and adaptation to climate change in the built environment but the outputs of much of this research have failed to result in the wider uptake of effective greenhouse gas emission reduction solutions This volume introduces credible fresh thinking on how this may be done For the first time an emerging generation of research is brought together that is directly concerned with understanding influencing and leading the transformation of markets and thinking in the built environment Chapters cover defining values setting targets consumer motivation selling existing ideas better developing new design principles paradigms and programmes optimizing solutions to ensure that when change does happen it does so in the right direction Papers are contributed by leading experts in fields ranging from philosophy the social political and physical sciences engineering architecture mathematics and complexity science The resulting volume will be essential reading for all those involved with changing the mindsets of a generation on the need to and ways to build resilience to rapid change and transforming markets in the built environment *Indoor Air Quality* Dikaia E. Saraga,2020-12-07 The monitoring of indoor air pollutants in a spatio temporal basis is challenging A key element is the access to local i e indoor residential workplace or public building exposure measurements Unfortunately the high cost and complexity of most current air pollutant monitors result in a lack of detailed spatial and temporal resolution As a result individuals in vulnerable groups children pregnant elderly and sick people have little insight into their personal exposure levels This becomes significant in cases of hyper local variations and short term pollution events such as instant indoor activity e g cooking smoking and dust resuspension Advances in sensor miniaturization have encouraged the development of small inexpensive devices capable of estimating pollutant concentrations This new class of sensors presents new possibilities for indoor exposure monitoring This Special Issue invites research in the areas of the triptych indoor air pollution monitoring indoor air modeling and exposure to indoor air pollution Topics of interest for the Special Issue include but are not limited to the following low cost sensors for indoor air monitoring indoor particulate matter and volatile organic compounds ozone terpene chemistry biological agents indoors source apportionment exposure assessment health effects of indoor air pollutants occupant perception climate change impacts on indoor air quality *Environmental Engineering IV* Artur Pawlowski,Marzenna R. Dudzinska,Lucjan Pawlowski,2013-05-21 Environmental engineering has a leading role in the elimination of ecological threats and deals in brief with securing technically the conditions which create a safe environment for mankind to live in Due to its interdisciplinary character it can deal with a wide range of technical and technological problems Since environmental engineering use **Water Conservancy and Civil Construction Volume 1** Saheed Adeyinka Oke,Fauziah Ahmad,2023-08-17 Water Conservancy and Civil Construction gathers the most cutting edge research

on Water Conservancy Projects Civil Engineering Construction Technology and Process The book is aimed at academics and engineers in water and civil engineering **International Encyclopedia of Ergonomics and Human Factors - 3**

Volume Set Informa Healthcare, 2000-12-14 The first encyclopaedic source in this interdisciplinary field This is a unique professional reference available in either three hardback volumes or CDROM **A Ventilation Strategy Based on Confluent Jets** Setareh Janbakhsh, 2015-04-27 This study presents air distribution systems that are based on confluent jets this system can be of interest for the establishment of indoor environments to fulfill the goals of indoor climate and energy efficient usage The main objective of this study is to provide deeper understanding of the flow field development of a supply device that is designed based on wall confluent jets and to investigate the ventilation performance by experimental and numerical methods In this study the supply device can be described as an array of round jets on a flat surface attached to a side wall Multiple round jets that issue from supply device apertures are combined at a certain distance downstream from the device and behave as a united jet or so called confluent jets Multiple round jets that are generated from the supply device move downward and are attached to the wall at the primary region due to the Coanda effect and then they become wall confluent jets until the floor wall is reached A wall jet in a secondary region is formed along the floor after the stagnation region The characteristics of the flow field and the ventilation performance of conventional wall confluent jets and modified wall confluent jets supply devices are investigated experimentally in an office test room The study of the modified wall confluent jets is intended to improve the efficiency of the conventional one while maintaining acceptable thermal comfort in an office environment The results show that the modified wall confluent jets supply device can provide acceptable thermal comfort for the occupant with lower airflow rate compared to the conventional wall confluent jets supply device Numerical predictions using three turbulence models renormalization group RNG k realizable Re k and shear stress transport SST k are evaluated by measurement results The computational box and nozzle plate models are used to model the inlet boundary conditions of the nozzle device In the isothermal study the wall confluent jets in the primary region and the wall jet in the secondary region when predicted by the three turbulence models are in good agreement with the measurements The non isothermal validation studies show that the SST k model is slightly better at predicting the wall confluent jets than the other two models The SST k model is used to investigate the effects of the nozzle diameter number of nozzles nozzle array configuration and inlet discharge height on the ventilation performance of the proposed wall confluent jets supply device The nozzle diameter and number of nozzles play important roles in determining the airflow pattern temperature field and draught distribution Increased temperature stratification and less draught distribution are achieved by increasing the nozzle diameter and number of nozzles The supply device with smaller nozzle diameters and fewer nozzles yields rather uniform temperature distribution due to the dominant effect of mixing The flow behavior is nearly independent of the inlet discharge height for the studied range The proposed wall confluent jets supply device is compared with a mixing supply device impinging supply

device and displacement supply device The results show that the proposed wall confluent jets supply device has the combined behavior of both mixing and stratification principles The proposed wall confluent jets supply device provides better overall ventilation performance than the mixing and displacement supply devices used in this study This study covers also another application of confluent jets that is based on impinging technology The supply device under consideration has an array of round jets on a curve Multiple jets issue from the supply device aperture in which the supply device is positioned vertically and the jets are directed against a target wall The flow behavior and ventilation performance of the impinging confluent jets supply device is studied experimentally in an industrial premise The results show that the impinging confluent jets supply device maintains acceptable thermal comfort in the occupied zone by creating well distributed airflow during cold and hot seasons

Energy Policy Design in the Eastern Mediterranean Basin Bertug Ozarisoy,Hasim Altan,2023-09-28 This book explores energy consumption and thermal comfort in the social housing sector in the Eastern Mediterranean basin This book presents a novel methodological framework for the optimisation of post war social housing developments in the Eastern Mediterranean climate The authors draw on semi structured interviews to present evidence on in situ thermal sensation and provide the results of walk through and walk in thermographic surveys to highlight building fabric performance and highlight anomalies in the building envelopes The authors go on to show how this data informed retrofit design solution can be applied to reduce household energy consumption increase awareness of domestic energy use and inform effective policymaking decisions in energy use in the Eastern Mediterranean basin including the development of Energy Performance Certificate schemes This book will be of great interest to students and scholars of energy policy energy efficiency and planning It will also assist architects building engineers and other practitioners in closing the gap between the current understanding and the actual performance of existing residential building stocks in the Eastern Mediterranean basin

Human Ecology

Frederick Sargent,1983 Abstract An annotated bibliography brings together resources to assist participants in the health care system in understanding man environmental interactions and interrelations The introductory section of each chapter contains excerpts from the writings of the author These serve not only to conform to other volumes in the series but also to provide users of this volume with the viewpoint of the author Topics covered include the nature and scope of human ecology the abiotic and biotic environments human adaptability man s manipulation of the environment environmental quality community health in developed and developing countries and health intervention strategies An addendum arranged in the same order as the text contains items that are not annotated Lists of society and association sponsored journals and abstracting and indexing publications of interest to students of this discipline have been indicated emc

The Atmospheric Environment A Study Of Comfort Performance Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **The Atmospheric Environment A Study Of Comfort Performance**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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