

Ramy Hamdy Abdelhady

Performance Study of Outlets and Its Impact on Airflow Characteristics



Lei Luo, Bengt Aake Sunden, Songtao Wang, Xiao Liu

Performance Study of Outlets and Its Impact on Airflow Characteristics Ramy Hamdy Abdelhady, 2014-10-15 In this study the investigation of indoor airflow in a sub scale ventilated room is conducted using two approaches experimental measurements and numerical simulations. The study concerns the prediction of comfort properties in a sub scale room Particular interest is concentrated on the three types of ceiling diffusers namely square round and swirl vortex diffusers Basic parameters included air temperature relative humidity and air velocity are measured and or predicated at different inlet conditions to obtain thermal comfort indices such as mean age of air ventilation effectiveness and effective draft temperature Experiments are carried out to find the temperature profile for a certain space at conditions in the range of those expected in daily applications. These data are then used to verify and validate the numerical prediction. The experiments are performed by varying certain parameters and studying the effect of each of these parameters on the air temperature the velocity profile and hence the thermal comfort Stratum Ventilation—Advanced Air Distribution for Low-Carbon and Healthy Buildings Sheng Zhang, Yong Cheng, Zhang Lin, 2024-11-01 This book investigates the creation of healthy and thermally comfortable built environments in a low carbon manner with advanced air distribution i e stratum ventilation Stratum ventilation efficiently supplies conditioned and clean air to the head level of occupants for thermal comfort and inhaled air quality and largely reduces energy consumption and CO2 emission e g by 44% and 32% respectively compared with the conventional air distribution method This book provides the working principles performance evaluations methods design methods operation methods and different application scenarios particularly highlighting airborne infection risk control of respiratory diseases and integrated application with renewable energy of stratum ventilation to provide theoretical understandings and technical guidelines of stratum ventilation. The book is intended for undergraduate and graduate students researchers and engineers who are interested in cutting edge technologies of livable and sustainable built environments Recent Trends in Mechanical Engineering Amitava De, Partha P. Mukherjee, Sukumar Pati, Agnimitra Biswas, 2024-12-27 This book presents the select proceedings of the 5th International Conference on Recent Advancements in Mechanical Engineering ICRAME 2024 Various topics covered in this book are thermal engineering design engineering manufacturing production engineering engineering design novel materials for thin film solar cells solar thermal hydrogen cryogenic applications renewable energy conventional and non conventional machining ergonomics and many more The book is useful for researchers and professionals working in the various areas of mechanical engineering **Modeling Practice** and Mechanism Design of Green Energy Systems towards Sustainable Development Jianli Zhou, Lirong Liu, Meiheriayi Mutailipu, Shuai Geng, Shenbo Yang, Ting Zhang, 2025-03-12 The sustainable development of energy has become a global concern The energy system as an extremely important module for production conversion transmission and supply in the energy industry is facing pressure from deep decarbonization and green transformation. The application of wind power

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Proceedings of the First International Conference on Advanced Robotics, Control, and Artificial Intelligence Hai Wang, 2025-06-27 This book highlights the latest research developments and outcomes on all aspects of advanced robotics control and artificial intelligence Particularly it not only includes those emerging methodologies and techniques which bridge theoretical studies and applications in all robotics and control systems as well as artificial intelligence but also involves the practical concerns and challenges encountered and potential solutions in those fields **Proceedings of the 2nd International Seminar on Aeronautics and Energy Nik** Ahmad Ridhwan Nik Mohd., Shabudin Mat, 2023-11-18 This book consists of selected peer reviewed papers from the 2nd International Seminar on Aeronautics and Energy ISAE 2022 focusing on the theme to revive the aviation industry post COVID 19 pandemic The topics discussed in this book include aircraft design and optimization computational fluid dynamics CFD simulation and experimental aerodynamics aircraft structure and aeroelasticity guidance control and navigation aircraft manufacturing and health monitoring avionics and system integration of UAV drones SITL AND HITL application on drones rockets and missile industrial wind engineering green fuel and aviation sustainability and aviation management This book is a valuable resource for academicians and industry players in the field of aviation and sustainability Trends in Advanced <u>Unmanned Aerial Systems</u> Zheng Hong (George) Zhu, Xiaohui Wei, Renfu Li, 2025-03-17 This book presents an extensive exploration of the latest trends in Unmanned Aerial Systems UAS technology and the boundless opportunities they offer Encompassing various facets of the UAS domain including Autonomy and Control Flight Dynamics and Control Communication and Navigation Sensing and Perception Design and Simulation Materials and Mechanics the book is tailored for researchers engineers and practitioners deeply involved in the field of UAS It delves into the intricate technicalities of UAS technology providing profound insights and comprehensive discussions on its fundamental principles Technical Aerospace Reports ,1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Advances in Computational Heat and Mass Transfer Ali Cemal Benim, Rachid Bennacer, Abdulmajeed A. Database Mohamad, Paweł Ocłoń, Sang-Ho Suh, Jan Taler, 2024-08-30 This book reports on cutting edge applied research and methods in the area of heat and mass transfer and computational fluid dynamics With a special emphasis on computational methods it covers applications to different fields including mechanical engineering aerospace and energy among others Some relevant experimental validations are described as well Being the first volume of the two volume proceedings of the 14th International Conference on Computational Heat and Mass Transfer ICCHMT 2023 held on September 4 8 2023 in D sseldorf Germany this book offers a timely perspective of research and applications in the field of computational heat and mass transfer It also provides both academics and professionals with extensive information and a source of inspiration for new developments and collaborations 2023 Asia-Pacific International Symposium on Aerospace Technology (APISAT 2023) **Proceedings** Song Fu,2024-07-04 This book is a compilation of peer reviewed papers from the 2023 Asia Pacific International Symposium on Aerospace Technology APISAT2023 The symposium is a common endeavour among the four national aerospace societies in China Australia Korea and Japan namely Chinese Society of Aeronautics and Astronautics CSAA Royal Aeronautical Society Australian Division RAeS Australian Division Japan Society for Aeronautical and Space Sciences ISASS and Korean Society for Aeronautical and Space Sciences KSAS APISAT is an annual event initiated in 2009 It aims to provide the opportunity to Asia Pacific nations for the researchers of universities and academic institutes and for the industry engineers to discuss the current and future advanced topics in aeronautical and space engineering This is the volume II of the proceedings NASA Scientific and Technical Reports United States. National Aeronautics and Space Administration Scientific and Technical Information Division, 1966 **Advances in Decision Science and Management** Taosheng Wang, Srikanta Patnaik, Andrew W.H. Ip, Madjid Tavana, 2021-07-26 This book discusses an emerging area in

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