

Ramy Hamdy Abdelhady

Performance Study of Outlets and Its Impact on Airflow Characteristics



<u>Performance Study Of Outlets And Its Impact On Airflow</u> <u>Characteristics</u>

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

Performance Study Of Outlets And Its Impact On Airflow Characteristics:

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 Advanced Technologies in Flow Dynamics and Combustion in Propulsion and Power Lei Luo, Bengt Aake Sunden, Songtao Wang,Xiao Liu,2022-08-05 <u>Industrial Ventilation Design Guidebook: Volume 1</u> Howard D. Goodfellow, Risto Kosonen, 2020-07-24 The fully revised and restructured two volume 2nd edition of the Industrial Ventilation Design Guidebook develops a systematic approach to the engineering design of industrial ventilation systems and provides engineers

guidance on how to implement this state of the art ventilation technology on a global basis Volume 1 Fundamentals features the latest research technology in the broad field of ventilation for contaminant control including extensive updates of the foundational chapters from the previous edition With major contributions by experts from Asia Europe and North America in the global industrial ventilation field this new edition is a valuable reference for consulting engineers working in the design of air pollution and sustainability for their industrial clients processing and manufacturing as well as mechanical process and plant engineers looking for design methodologies and advice on sensors and control algorithms for specific industrial operations so they can meet challenging targets in the low carbon economy Presents practical designs for different types of industrial systems including descriptions and new designs for ducted systems Discusses the basic processes of air and containment movements such as jets plumes and boundary flows inside ventilated spaces Introduces the new concept of target levels in the systematic design methodology such as assessing target levels for key parameters of industrial air technology and the hierarchy of different target levels Provides future directions and opportunities in the industrial design Modeling Practice and Mechanism Design of Green Energy Systems towards Sustainable Development Jianli field Zhou, Lirong Liu, Meiheriavi 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 photovoltaic hydrogen energy power to gas P2G technology carbon capture utilization and storage CCUS technology will help the energy system achieve the Sustainable Development Goals Hydrogen energy will become a bridge for various energy conversion promoting the high speed flow of green energy Therefore modeling practice and mechanism design for green energy systems will become a key area of academic research The full utilization and consumption of renewable energy generation e g wind and photovoltaic still face difficulties and challenges especially the problem of full consumption The development and layout of multi energy complementarity coupling and interaction and collaborative integrated energy systems can effectively solve the above problems Therefore there is an urgent need to study the mechanism planning and design optimized operation development mode carbon emission reduction energy policies and trading mechanisms of integrated energy systems coupled with renewable energy generation and hydrogen energy to promote its further development and help achieve a clean and sustainable future This field will integrate the knowledge and methodology from energy science power electronics management science and economics *Proceedings of the 6th China* Aeronautical Science and Technology Conference Chinese Soc. of Aeronautics&Astronautics,2023-12-18 This book contains the original peer reviewed research papers presented at the 6th China Aeronautical Science and Technology Conference held in Wuzhen Zhejiang Province China in September 2023 Topics covered include but are not limited to Navigation Guidance and Control Technology Aircraft Design and Overall Optimisation of Key Technologies Aviation Testing Technology Airborne

Systems Electromechanical Technology Structural Design Aerodynamics and Flight Mechanics Advanced Aviation Materials and Manufacturing Technology Advanced Aviation Propulsion Technology and Civil Aviation Transportation The papers presented here share the latest findings in aviation science and technology making the book a valuable resource for researchers engineers and students in related fields Advanced technologies in flow dynamics and combustion in propulsion and power, volume II Lei Luo, Xiao Liu, Bengt Aake Sunden, Songtao Wang, 2023-02-09 from IIKII 2019 conferences in Symmetry Teen-Hang Meen, Charles Tijus, Jih-Fu Tu, 2020-12-15 The International Institute of Knowledge Innovation and Invention IIKII http www iikii org promotes the exchange of innovations and inventions and establishes a communication platform for international innovations and research In 2019 IIKII cooperates with the IEEE Tainan Section Sensors Council to hold IEEE conferences such as IEEE ICIASE 2019 IEEE ECBIOS 2019 IEEE ICKII 2019 ICUSA GAME 2019 and IEEE ECICE 2019 This Special Issue entitled Selected Papers from IIKII 2019 conferences aims to showcase outstanding papers from IIKII 2019 conferences including symmetry in physics chemistry biology mathematics and computer science etc It selected 21 outstanding papers from 750 papers presented in IIKII 2019 conferences on the topic of symmetry The main goals of this Special Issue are to encourage scientists to publish their experimental and theoretical results in as much detail as possible and to discover new scientific knowledge relevant to the Artificial Intelligence in Internet of Things (IoT): Key Digital Trends Frank Lin, David Pastor, Nishtha topic of symmetry Kesswani, Ashok Patel, Sushanta Bordoloi, Chaitali Koley, 2024-10-16 This book is a collection of high quality research papers presented at 8th International Conference on Internet of Things and Connected Technologies ICIoTCT 2023 held at National Institute of Technology NIT Mizoram India during 29 30 September 2023 This book presents recent advances on IoT and connected technologies This book is designed for marketing managers business professionals researchers academicians and graduate level students seeking to learn how IoT and connecting technologies increase the amount of data gained through devices enhance customer experience and widen the scope of IoT analytics in enhancing customer marketing outcomes

Research Memorandum ,1958 Advanced Manufacturing and Automation XIV Yi Wang, Tao Yu, Kesheng Wang, 2025-02-14 The book is a compilation of selected papers from the 14th International Workshop of Advanced Manufacturing and Automation IWAMA 2024 held in Kunming University of Science and Technology China on 11 12 October 2024 Topics focusing on novel techniques for manufacturing and automation in Industry 4 0 are now vital factors for the maintenance and improvement of the economy of a nation and the quality of life It will help academic researchers and engineering to implement the concept theory and methods in Industry 4 0 which has been a hot topic These proceedings will make valuable contributions to academic researchers engineers in the industry for the challenges in the 4th industry revolution and smart factories NACA Research Memorandum ,19?? Proceedings of the 9th Asian Joint Workshop on Thermophysics and Fluid Science, 27–30 November 2022, Utsunomiya, Japan Abhilash Suryan, Minoru Yaga, Han Seo

Ko, Zhang Guang, 2024-03-19 This book is a collection of the best peer reviewed papers presented at the ninth Asian joint workshop on thermophysics and fluid science organized in Utsunomiya Japan in November 2022 The book is a valuable addition to the conference series started in the year 2006 with contents that include the research outputs from Asian countries India China Japan and the Republic of Korea Some of the papers are collaborative efforts by academicians from these countries The book provides an overview of recent research in the fields of fluid and thermal engineering The chapters in the book deal with research problems on aerodynamics propulsion transonic and supersonic flows aero acoustics fluid dynamics thermodynamics combustion heat and mass transfer and turbomachinery Analytical experimental and numerical approaches are employed in the chapters This volume will benefit academicians researchers and students working on research problems in thermal and fluid sciences Electrostatic Precipitation Keping Yan, 2010-07-19 Electrostatic Precipitation includes selected papers presented at the 11th International Conference on Electrostatic Precipitation It presents the newest developments in electrostatic precipitation flue gas desulphurization FGD selective catalytic reduction SCR and non thermal plasma techniques for multi pollutants emission control Almost all outstanding scientists and engineers world wide in the field will report their on going researches The book will be a useful reference for scientists and engineers to keep abreast of the latest developments in environmental science and engineering **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 **Trends in Advanced Unmanned Aerial Systems** 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 Cold Inflow-Free Solar Chimney Md. Mizanur Rahman, Chi-Ming Chu, 2021-05-28 This book highlights the design of a new type of solar chimney that has lower height and bigger diameter and discusses its applications The bigger diameter chimneys are introduced showing cold inflow phenomena that significantly reduced the performance of solar chimney The cold inflow free operation of solar chimneys restores the draft losses and enhances the performance of the solar chimneys Numerical and experimental investigation results will be presented to highlight the performance of cold inflow free solar chimney performance In addition this book covers the

important basic design parameters that affect the design of solar chimney for different applications mainly solar chimney assisted ventilation for passive cooling and power generation system Drying Technologies for Biotechnology and Pharmaceutical Applications Satoshi Ohtake, Ken-ichi Izutsu, David Lechuga-Ballesteros, 2020-02-10 A comprehensive source of information about modern drying technologies that uniquely focus on the processing of pharmaceuticals and biologicals Drying technologies are an indispensable production step in the pharmaceutical industry and the knowledge of drying technologies and applications is absolutely essential for current drug product development This book focuses on the application of various drying technologies to the processing of pharmaceuticals and biologicals It offers a complete overview of innovative as well as standard drying technologies and addresses the issues of why drying is required and what the critical considerations are for implementing this process operation during drug product development Drying Technologies for Biotechnology and Pharmaceutical Applications discusses the state of the art of established drying technologies like freeze and spray drying and highlights limitations that need to be overcome to achieve the future state of pharmaceutical manufacturing The book also describes promising next generation drying technologies which are currently used in fields outside of pharmaceuticals and how they can be implemented and adapted for future use in the pharmaceutical industry In addition it deals with the generation of synergistic effects e g by applying process analytical technology and provides an outlook toward future developments Presents a full technical overview of well established standard drying methods alongside various other drying technologies possible improvements limitations synergies and future directions Outlines different drying technologies from an application oriented point of view and with consideration of real world challenges in the field of drug product development Edited by renowned experts from the pharmaceutical industry and assembled by leading experts from industry and academia Drying Technologies for Biotechnology and Pharmaceutical Applications is an important book for pharma engineers process engineers chemical engineers and others who work in related industries 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 JSASS 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

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