



Ramy Hamdy Abdelhady

# Performance Study of Outlets and Its Impact on Airflow Characteristics

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# Performance Study Of Outlets And Its Impact On Airflow Characteristics

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## **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 CO<sub>2</sub> 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 ICROME 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

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

**Industrial Ventilation Design Guidebook: Volume 1** 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 field

*Selected Papers 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 topic of symmetry

*Advanced Technologies in Flow Dynamics and Combustion in Propulsion and Power* Lei Luo, Bengt Aake Sunden, Songtao Wang, Xiao Liu, 2022-08-05

*Artificial Intelligence in Internet of Things (IoT): Key Digital Trends* Frank Lin, David Pastor, Nishtha 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

*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

*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 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 ***Scientific and 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 Database **Advances in Computational Heat and Mass Transfer** Ali Cemal Benim,Rachid Bennacer,Abdulmajeed A. Mohamad,Paweł Ocioń,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 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 ***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

computer science IT and management i e decision sciences and management It includes studies that employ various computing techniques like machine learning to generate insights from huge amounts of available data and which explore decision making for cross platforms that contain heterogeneous data associated with complex assets leadership and team coordination It also reveals the advantages of using decision sciences with management oriented problems The book includes a selection of the best papers presented at the Third International Conference on Decision Science and Management 2021 ICDSM 2021 held at Hang Seng University of Hong Kong in China      Industrial Ventilation Design Guidebook Howard D. Goodfellow, Yi Wang, 2021-06-04 Industrial Ventilation Design Guidebook Volume 2 Engineering Design and Applications brings together researchers engineers both design and plants and scientists to develop a fundamental scientific understanding of ventilation to help engineers implement state of the art ventilation and contaminant control technology Now in two volumes this reference contains extensive revisions and updates as well as a unique section on best practices for the following industrial sectors Automotive Cement Biomass Gasifiers Advanced Manufacturing Industrial 4 0 Non ferrous Smelters Lime Kilns Pulp and Paper Semiconductor Industry Steelmaking Mining Brings together global researchers and engineers to solve complex ventilation and contaminant control problems using state of the art design equations Includes an expanded section on modeling and its practical applications based on recent advances in research Features a new chapter on best practices for specific industrial sectors      **Recent Researches in Engineering Sciences** Hasan Koten, 2021-05-15 Recent Researches in Engineering Sciences

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