



# ASME TURBO EXPO 2024

TURBOMACHINERY TECHNICAL CONFERENCE & EXPOSITION

## Panel: International R&D Projects on Energy Storage

Wednesday June 26, 8:00 – 10:00 – Room Pod 3 (S5 + S6)



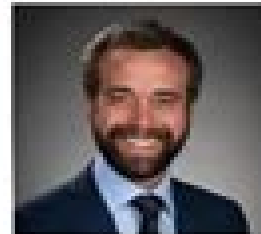
**David Sánchez**  
Professor



**Alberto Traverso**  
Professor



**Silvia Trevisan**  
Researcher



**Marco Astolfi**  
Assoc. Professor



**Natalie Smith**  
Group Leader



**Josh McTigue**  
Researcher

### Moderator - Organizer



**Rafael Guédez, PhD**  
Head of Division  
Energy Department  
KTH Royal Institute of Technology



# Asme Turbo Expo Electric Power Turbomachinery

**John M. Vance, Fouad Y. Zeidan, Brian  
G. Murphy**



## **Asme Turbo Expo Electric Power Turbomachinery:**

Proceedings of ASME Turbo Expo 2022: Turbomachinery Technical Conference and Exposition (GT2022) (Volume 5)  
ASME, 2022-12-31 35 papers covering Education Electric Power and Fans and Blowers **Proceedings of the ASME Turbo Expo 2004: Electric power; turbomachinery**, 2004 ASME Turbo Expo 2020, 2020 **Turbomachinery Flow Physics and Dynamic Performance** Meinhard T. Schobeiri, 2012-05-01 With this second revised and extended edition the readers have a solid source of information for designing state of the art turbomachinery components and systems at hand Based on fundamental principles of turbomachinery thermo fluid mechanics numerous CFD based calculation methods are being developed to simulate the complex 3 dimensional highly unsteady turbulent flow within turbine or compressor stages The objective of this book is to present the fundamental principles of turbomachinery fluid thermodynamic design process of turbine and compressor components power generation and aircraft gas turbines in a unified and compact manner The book provides senior undergraduate students graduate students and engineers in the turbomachinery industry with a solid background of turbomachinery flow physics and performance fundamentals that are essential for understanding turbomachinery performance and flow complexes While maintaining the unifying character of the book structure in this second revised and extended edition all chapters have undergone a rigorous update and enhancement Accounting for the need of the turbomachinery community three chapters have been added that deal with computationally relevant aspects of turbomachinery design such as boundary layer transition turbulence and boundary layer ASME Turbo Expo 2022, 2022 Aerothermodynamics of Turbomachinery Naixing Chen, 2011-09-23 Computational Fluid Dynamics CFD is now an essential and effective tool used in the design of all types of turbomachine and this topic constitutes the main theme of this book With over 50 years of experience in the field of aerodynamics Professor Naixing Chen has developed a wide range of numerical methods covering almost the entire spectrum of turbomachinery applications Moreover he has also made significant contributions to practical experiments and real life designs The book focuses on rigorous mathematical derivation of the equations governing flow and detailed descriptions of the numerical methods used to solve the equations Numerous applications of the methods to different types of turbomachine are given and in many cases the numerical results are compared to experimental measurements These comparisons illustrate the strengths and weaknesses of the methods a useful guide for readers Lessons for the design of improved blading are also indicated after many applications Presents real world perspective to the past present and future concern in turbomachinery Covers direct and inverse solutions with theoretical and practical aspects Demonstrates huge application background in China Supplementary instructional materials are available on the companion website Aerothermodynamics of Turbomachinery Analysis and Design is ideal for senior undergraduates and graduates studying in the fields of mechanics energy and power and aerospace engineering design engineers in the business of manufacturing compressors steam and gas turbines and research engineers and scientists

working in the areas of fluid mechanics aerodynamics and heat transfer Supplementary lecture materials for instructors are available at [www.wiley.com/go/chenturbo](http://www.wiley.com/go/chenturbo) *Proceedings of the ASME Turbo Expo 2004: pt. A. Electric power, turbomachinery, general interest, axial flow fan and compressor aerodynamics, radial turbomachinery aerodynamics, unsteady flows in turbomachinery. pt. B. Turbomachinery, axial flow turbine aerodynamics, design methods and CFD modelling for turbomachinery, turbomachines and the environment, marine*, 2004 **Gas Turbines for Electric Power**

**Generation S.** Can Gülen, 2019-02-14 Everything you wanted to know about industrial gas turbines for electric power generation in one source with hard to find hands on technical information **Advanced technologies in flow dynamics and combustion in propulsion and power, volume II** Lei Luo, Xiao Liu, Bengt Aake Sundén, Songtao Wang, 2023-02-09

Energy Transport Infrastructure for a Decarbonized Economy Klaus Brun, Tim Allison, Rainer Kurz, Karl Wygant, 2024-08-22 Energy Transport Infrastructure for a Decarbonized Economy evaluates the transportation of fluids required in the decarbonized energy economy The book will help researchers design manufacturers and those within government and academia to understand challenges and guide the design and development of systems machinery and infrastructure needed for a decarbonized energy economy The book provides comprehensive insights on the implications of the energy transition for a critical aspect of commerce the infrastructure central to energy transportation and the economy This practical book highlights the unique systems central to the efficient transport of various forms of energy After outlining the need for transporting energy types of fluids used to transport energy and various means of transportation the book covers the importance of understanding the energy marketplace global perspectives and then moves into the transport of natural gas hydrogen and carbon dioxide The work concludes with coverage of technology gaps research and development future trends and solutions Led by professionals with decades of experience and collecting insights from expert contributors this book begins with the essentials of energy transport provides detailed coverage of modes of transport considers critical questions of energy supply and economics and looks at long term environmentally sensitive sustainable options for the transport thereof A powerful tool for the energy transition Energy Transport Infrastructure for a Decarbonized Economy offers expert analysis on sustainable energy transport and its impact on our future Focuses on the energy transport required for a decarbonized energy economy Addresses challenges of pipeline transport of hydrogen and carbon dioxide as well as new infrastructure needs Provides details on the layout specifications and technical requirements of systems required for the transportation of hydrogen natural gas and carbon dioxide *Unsteady Computational Fluid Dynamics in Aeronautics* P.G. Tucker, 2013-08-30 The field of Large Eddy Simulation LES and hybrids is a vibrant research area This book runs through all the potential unsteady modelling fidelity ranges from low order to LES The latter is probably the highest fidelity for practical aerospace systems modelling Cutting edge new frontiers are defined One example of a pressing environmental concern is noise For the accurate prediction of this unsteady modelling is needed Hence computational aeroacoustics is explored It is

also emerging that there is a critical need for coupled simulations Hence this area is also considered and the tensions of utilizing such simulations with the already expensive LES This work has relevance to the general field of CFD and LES and to a wide variety of non aerospace aerodynamic systems e g cars submarines ships electronics buildings Topics treated include unsteady flow techniques LES and hybrids general numerical methods computational aeroacoustics computational aeroelasticity coupled simulations and turbulence and its modelling LES RANS transition VLES URANS The volume concludes by pointing forward to future horizons and in particular the industrial use of LES The writing style is accessible and useful to both academics and industrial practitioners From the reviews Tucker s volume provides a very welcome concise discussion of current capabilities for simulating and modelling unsteady aerodynamic flows It covers the various possible numerical techniques in good clear detail and presents a very wide range of practical applications beautifully illustrated in many cases This book thus provides a valuable text for practicing engineers a rich source of background information for students and those new to this area of Research Development and an excellent state of the art review for others A great achievement Mark Savill FHEA FRAeS C Eng Professor of Computational Aerodynamics Design Head of Power Propulsion Sciences Department of Power Propulsion School of Engineering Cranfield University Bedfordshire U K This is a very useful book with a wide coverage of many aspects in unsteady aerodynamics method development and applications for internal and external flows L He Rolls Royce RAEng Chair of Computational Aerothermal Engineering Oxford University U K This comprehensive book ranges from classical concepts in both numerical methods and turbulence modelling approaches for the beginner to latest state of the art for the advanced practitioner and constitutes an extremely valuable contribution to the specific Computational Fluid Dynamics literature in Aeronautics Student and expert alike will benefit greatly by reading it from cover to cover S bastien Deck Onera Meudon France

**Detached-Eddy Simulation Series Methods for Compressor Internal Flow** Ruiyu Li,Limin Gao,Lei Zhao,2024-12-31 This book concentrates on high fidelity numerical methods for predicting internal flows within aeroengines compressors A distinctive features of this work is the establishment of a comprehensive research framework Specifically it starts with engineering application requirements and integrates high performance parallel algorithms to develop detached eddy simulation DES series methods tailored to the needs of compressor design Additionally it encompasses the development of data analysis methods suitable for handling the vast amounts of high fidelity unsteady flow data in compressors and the high spatial resolution experimental results This book takes us from making the intricate details of compressor flow field structures visible to explainable Another noteworthy aspect of this book is its practical orientation seamlessly integrating theoretical concepts with practical applications Herein it addresses three major engineering problems in detail and elucidates the technical approaches involving advanced numerical methods and data analysis techniques for solving these physical problems The book highlights the challenging issues associated with complex internal flows in compressors the governing equations for DES series methods and the

implementation strategies for numerical simulations of internal compressor flows They also delve into data driven analysis methods for unsteady flow field data high fidelity numerical simulations of flow in the blade root region of compressors dynamic flow capture methods in the tip region of compressor blades and simulation and analysis of flow fields in inlet distortion generators This book serves as a valuable reference for researchers and engineering professionals in the aerospace computational fluid dynamics and high performance turbomachinery fields Additionally it can be used as a specialized textbook for doctoral and master s students in disciplines such as aerospace science and technology power engineering and engineering thermophysics

Advanced Applications of Supercritical Fluids in Energy Systems Chen, Lin,Iwamoto, Yuhiro,2017-03-24 Supercritical fluids have been utilized for numerous scientific advancements and industrial innovations As the concern for environmental sustainability grows these fluids have been increasingly used for energy efficiency purposes *Advanced Applications of Supercritical Fluids in Energy Systems* is a pivotal reference source for the latest academic material on the integration of supercritical fluids into contemporary energy related applications Highlighting innovative discussions on topics such as renewable energy fluid dynamics and heat and mass transfer this book is ideally designed for researchers academics professionals graduate students and practitioners interested in the latest trends in energy conversion

*Vibration of Nearly Periodic Structures and Mistuned Bladed Rotors* Alok Sinha,2017-06-16 This is the first comprehensive volume on fundamental concepts and issues in the analysis of mistuned vibrations

**Proceedings of the 9th IFToMM International Conference on Rotor Dynamics** Paolo Pennacchi,2015-05-26 This book presents the proceedings of the 9th IFToMM International Conference on Rotor Dynamics This conference is a premier global event that brings together specialists from the university and industry sectors worldwide in order to promote the exchange of knowledge ideas and information on the latest developments and applied technologies in the dynamics of rotating machinery The coverage is wide ranging including for example new ideas and trends in various aspects of bearing technologies issues in the analysis of blade dynamic behavior condition monitoring of different rotating machines vibration control electromechanical and fluid structure interactions in rotating machinery rotor dynamics of micro nano and cryogenic machines and applications of rotor dynamics in transportation engineering Since its inception 32 years ago the IFToMM International Conference on Rotor Dynamics has become an irreplaceable point of reference for those working in the field and this book reflects the high quality and diversity of content that the conference continues to guarantee

*Uncertainty Quantification in Computational Fluid Dynamics and Aircraft Engines* Francesco Montomoli,2018-06-21 This book introduces design techniques developed to increase the safety of aircraft engines and demonstrates how the application of stochastic methods can overcome problems in the accurate prediction of engine lift caused by manufacturing error This in turn addresses the issue of achieving required safety margins when hampered by limits in current design and manufacturing methods The authors show that avoiding the potential catastrophe generated by the failure of an aircraft engine relies on the

prediction of the correct behaviour of microscopic imperfections This book shows how to quantify the possibility of such failure and that it is possible to design components that are inherently less risky and more reliable This new updated and significantly expanded edition gives an introduction to engine reliability and safety to contextualise this important issue evaluates newly proposed methods for uncertainty quantification as applied to jet engines Uncertainty Quantification in Computational Fluid Dynamics and Aircraft Engines will be of use to gas turbine manufacturers and designers as well as CFD practitioners specialists and researchers Graduate and final year undergraduate students in aerospace or mathematical engineering may also find it of interest

Designing Engineering Structures using Stochastic Optimization Methods Levent Aydin,H. Seçil Artem,Selda Oterkus,2020-04-27 Among all aspects of engineering design is the most important step in developing a new product A systematic approach to managing design issues can only be accomplished by applying mathematical optimization methods Furthermore due to the practical issues in engineering problems there are limitations in using traditional methods As such stochastic optimization methods such as differential evolution simulated annealing and genetic algorithms are preferable in finding solutions in design optimization problems This book reviews mechanical engineering design optimization using stochastic methods It introduces students and design engineers to practical aspects of complicated mathematical optimization procedures and outlines steps for wide range of selected engineering design problems It shows how engineering structures are systematically designed Many new engineering design applications based on stochastic optimization techniques in automotive energy military naval manufacturing process and fluids heat transfer are described in the book For each design optimization problem described background is provided for understanding the solutions There are very few books on optimization that include engineering applications They cover limited applications and that too of well known design problems of advanced and niche nature Common problems are hardly addressed Thus the subject has remained fairly theoretical To overcome this each chapter in this book is contributed by at least one academic and one industrial expert researcher

**Machinery Vibration and Rotordynamics** John M. Vance,Fouad Y. Zeidan,Brian G. Murphy,2010-05-24 An in depth analysis of machine vibration in rotating machinery Whether it s a compressor on an offshore platform a turbocharger in a truck or automobile or a turbine in a jet airplane rotating machinery is the driving force behind almost anything that produces or uses energy Counted on daily to perform any number of vital societal tasks turbomachinery uses high rotational speeds to produce amazing amounts of power efficiently The key to increasing its longevity efficiency and reliability lies in the examination of rotor vibration and bearing dynamics a field called rotordynamics A valuable textbook for beginners as well as a handy reference for experts Machinery Vibration and Rotordynamics is teeming with rich technical detail and real world examples geared toward the study of machine vibration A logical progression of information covers essential fundamentals in depth case studies and the latest analytical tools used for predicting and preventing damage in rotating machinery Machinery Vibration and Rotordynamics Combines rotordynamics

with the applications of machinery vibration in a single volume Includes case studies of vibration problems in several different types of machines as well as computer simulation models used in industry Contains fundamental physical phenomena mathematical and computational aspects practical hardware considerations troubleshooting and instrumentation and measurement techniques For students interested in entering this highly specialized field of study as well as professionals seeking to expand their knowledge base Machinery Vibration and Rotordynamics will serve as the one book they will come to rely upon consistently

**Engineering Fluid Dynamics 2018** Bjørn H. Hjertager, 2020-01-15 Engineering Fluid Dynamics 2018 The topic of engineering fluid dynamics includes both experimental as well as computational studies Of special interest were submissions from the fields of mechanical chemical marine safety and energy engineering We welcomed both original research articles as well as review articles After one year 28 papers were submitted and 14 were accepted for publication The average processing time was 37 91 days The authors had the following geographical distribution China 9 Korea 3 Spain 1 and India 1 Papers covered a wide range of topics including analysis of fans turbines fires in tunnels vortex generators deep sea mining as well as pumps

**The Role of Exergy in Energy and the Environment** Sandro Nižetić, Agis Papadopoulos, 2018-07-30 This book is devoted to the analysis and applications of energy exergy and environmental issues in all sectors of the economy including industrial processes transportation buildings and services Energy sources and technologies considered are hydrocarbons wind and solar energy fuel cells as well as thermal and electrical storage This book provides theoretical insights along with state of the art case studies and examples and will appeal to the academic community but also to energy and environmental professionals and decision makers



The Top Books of the Year Asme Turbo Expo Electric Power Turbomachinery The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Asme Turbo Expo Electric Power Turbomachinery : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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