



The Dyson Air Multiplier™ fan has no need for visible fan blades.



Bladeless is More

Fluid flow simulation advances acclaimed new fan design.

By Richard Mason, Research, Design and Development Manager; Frédéric Micolat, Senior Fluid Dynamics Engineer; and Robin Pitt, Fluid Dynamics Engineer, Dyson Research Design & Development Center, Malmesbury, U.K.

Released to wide international recognition in 2009 — including being named to *Time* magazine's list of best gadgets — the Dyson Air Multiplier™ fan is a both technical and stylistic re-imagining of the household fan. By accelerating air over a ramp, the design eliminates fan blades as well as the buffeting and turbulence associated with these household appliances. From the outset, however, Dyson engineers faced the challenge of developing and optimizing the design of an original new fan without the benefit of previous experience with this type of design. Historically, the company relied on physical prototyping for design development, but resulting cost and time constraints limit the ability to evaluate hundreds

of design candidates needed to optimize a new product. To complement experimental testing and reduce development time for this new fan, Dyson's engineers used fluid dynamics software from ANSYS to evaluate up to 10 different designs per day.

The idea for the Dyson Air Multiplier fan originated when the engineering team was testing the Dyson Airblade™ hand dryer. This drying device works by generating a thin sheet of air moving at 400 mph that pushes water off the user's hands. Observing the side effect that the sheet of air was dragging a considerable portion of the surrounding air with it, the team conceived a new idea: to produce a thin, high-speed sheet of air

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Integrating Sustainability to Education, Business, and Environmental Energy Solutions Sherine Farouk, Jacob Wood, Pengji Wang, Hamad Odhabi, Barry O'Mahony, Salam Abdallah, 2025-09-30 This book explores the critical role of sustainability in shaping the future of education business and environmental energy solutions It highlights innovative approaches to understanding and addressing challenges such as sustainable energy practices the adoption of environmentally friendly technologies and the integration of sustainability principles into business strategies and educational frameworks Also it covers issues including the adoption of electric vehicles the influence of cultural and institutional factors on sustainable practices the impact of lighting and environmental conditions on worker productivity and the importance of security in digital systems Additionally it examines how educational institutions can foster sustainable development the use of advanced technologies in enhancing learning and assessment and the broader societal implications of sustainable practices in various industries Furthermore the book provides valuable insights into how sustainability can be effectively integrated into key areas of modern life to promote a more sustainable and resilient future

Proceedings of the 1st International Conference on Advances in Aerospace and Navigation Systems - 2024 R. Mukesh, D. Venkata Ratnam, P. Theerthamalai, Prince Raj Lawrence Raj, 2025-05-20 This book contributes to the advancement of aerospace technology and the optimization of navigation systems thereby fostering innovation and progress in the field The Proceedings of the 1st International Conference on Advances in Aerospace and Navigation Systems 2024 captures a comprehensive exploration of groundbreaking research and advancements in the fields of Aerospace and Navigation Encompassing Aerodynamics Propulsion Structures Navigation Communication and Artificial Intelligence these proceedings investigate the details of each domain providing readers with a thorough understanding of the latest developments and methodologies One of the distinguishing features of this book is its international perspective With contributions from esteemed experts hailing from different corners of the globe these proceedings foster a global dialogue facilitating cross cultural insights and collaboration Through planetary talks and keynote addresses readers gain access to the wisdom and expertise of renowned speakers enhancing their comprehension of critical topics shaping the future of aerospace and navigation systems The conference proceedings offer a platform for in depth exploration and analysis addressing many of the themes such as aerodynamic design propulsion systems structures navigation techniques communication systems and the integration of artificial intelligence in aerospace applications Furthermore these proceedings serve as a repository of state of the art research providing readers with access to cutting edge studies and innovative approaches This book offers a wealth of knowledge and insights for scholars practitioners and students alike In addition to its academic significance these proceedings hold practical relevance for industry professionals and policymakers In summary the Proceedings of the 1st International Conference on Advances in Aerospace and Navigation Systems 2024 stands as a testament to the collective efforts of the global aerospace

community With its comprehensive coverage international perspective and commitment to excellence this book promises to be an invaluable resource for anyone invested in the future of aerospace and navigation technology Recent Advances in Manufacturing Modelling and Optimization Shailendra Kumar,J. Ramkumar,Panagiotis Kyratsis,2022-04-21 This book presents the selected proceedings of 2nd International Conference on Recent Advances in Manufacturing RAM 2021 The book provides insights to current research trends and opportunities in modelling and optimization of manufacturing processes and systems The topics covered include modelling analysis computing and simulation traditional and non traditional optimization techniques surface coating methods additive manufacturing processes CAD CAM robotics and automation welding and joining processes supply chain management and CAE and reverse engineering This book will be a good reference for beginners researchers and professionals interested in modelling and optimization related to manufacturing engineering and related fields *8th International Conference on Turbochargers and Turbocharging* IMechE,2016-06-15 Building on the success of an established series of successful conferences held every four years since 1978 8th International Conference on Turbochargers and Turbocharging presents the latest technologies relating to engine pressure charging systems from international industry and academic experts in the field covering new developments in compressors and novel intake systems Improved models for cycle simulation Electro boost systems Industry trends and requirements Turbines and mechanical aspects such as thermomechanical analysis dynamics and axial load capacity Discusses the latest technologies relating to engine pressure charging systems Looks at mechanical aspects such as thermomechanical analysis dynamics and axial load capacity *ANSYS Tutorial Release 2023* Kent Lawrence,2023 Contains eight step by step tutorial style lessons progressing from simple to complex Covers problems involving truss plane stress plane strain axisymmetric solid beam and plate structural elements Example problems in heat transfer thermal stress mesh creation and importing of CAD models are included Includes elementary orthotropic and composite plate examples The eight lessons in this book introduce you to effective finite element problem solving by demonstrating the use of the comprehensive ANSYS FEM Release 2023 software in a series of step by step tutorials The tutorials are suitable for either professional or student use The lessons discuss linear static response for problems involving truss plane stress plane strain axisymmetric solid beam and plate structural elements Example problems in heat transfer thermal stress mesh creation and transferring models from CAD solid modelers to ANSYS are also included The tutorials progress from simple to complex Each lesson can be mastered in a short period of time and lessons 1 through 7 should all be completed to obtain a thorough understanding of basic ANSYS structural analysis The concise treatment includes examples of truss beam and shell elements completely updated for use with ANSYS APDL 2023 Finite Element Simulations with ANSYS Workbench 14 Huei-Huang Lee,2012 Finite Element Simulations with ANSYS Workbench 14 is a comprehensive and easy to understand workbook It utilizes step by step instructions to help guide readers to learn finite element simulations Twenty seven case studies are used throughout

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chapter consists of 6 sections The first two provide two step by step examples The third section tries to complement the exercises by providing a more systematic view of the chapter subject The following two sections provide more exercises The final section provides review problems

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