



Fluent Launcher

Dimension

☒ 2D

☐ 3D

Display Options

☒ Display Mesh After Reading

☒ Workbench Color Scheme

☐ Do not show this panel again

ACT Option

☐ Load ACT

Options

☒ Double Precision

Processing Options

☒ Serial

☐ Parallel

 Show More Options

OK

Cancel

Help



Fluent 14 User Guide

**Mohammad Masud Kamal Khan, Nur
M.S Hassan**



Fluent 14 User Guide:

Spray-Freeze-Drying of Foods and Bioproducts S. Padma Ishwarya, 2022-04-19 Spray freeze drying SFD is a synergistic drying technology that imbibes in it the merits of both spray drying and freeze drying whilst overcoming the limitations of these predecessor technologies SFD produces uniquely powdered food and pharmaceutical products with porous microstructure and superior quality attributes Owing to its atomization step and ultra low temperature operation SFD is a competent drying technique for the production of valuable but sensitive bioactive components Despite the costs and complexities involved SFD has a competitive edge over the conventional drying techniques in providing distinctive product attributes The applications of spray freeze drying in the area of food and bioproducts span across the product categories of instant food powders dry flavors active pharmaceutical ingredients poorly water soluble drugs probiotics proteins enzymes and vaccines Spray Freeze Drying of Foods and Bioproducts Theory Applications and Perspectives is the first exclusive title on this interesting drying technique It provides a comprehensive understanding of the fundamentals of SFD and its food and pharmaceutical applications The scope of this book comprising 12 chapters has been organized under four major headings fundamentals of process stages applications with case studies recent advancements and the processing bottlenecks and solutions Key Features Provides examples and case studies of nuances and intricacies associated with each stage of the spray freeze drying process Highlights the applications of spray freeze drying in the production of food products including soluble coffee dairy powders probiotics and flavors Serves as a ready reckoner of characterization methods for spray freeze dried products Contains 200 illustrations and tabulations The contents of this book are organized to cater to the knowledge needs of students academicians researchers and professionals in the food and pharmaceutical industry [Advances in Fluid Mechanics X](#) C. A. Brebbia, S. Hernández, 2014-07-01 The field of fluid mechanics is vast and has numerous diverse applications This book covers a wide range of topics including basic formulations and their computer modelling as well as the relationship between experimental and analytical results The emphasis is on new applications and research currently in progress *Wind Turbine Aerodynamics* Wen Zhong Shen, 2019-10-04 Wind turbine aerodynamics is one of the central subjects of wind turbine technology To reduce the levelized cost of energy LCOE the size of a single wind turbine has been increased to 12 MW at present with further increases expected in the near future Big wind turbines and their associated wind farms have many advantages but also challenges The typical effects are mainly related to the increase in Reynolds number and blade flexibility This Special Issue is a collection of 21 important research works addressing the aerodynamic challenges appearing in such developments The 21 research papers cover a wide range of problems related to wind turbine aerodynamics which includes atmospheric turbulent flow modeling wind turbine flow modeling wind turbine design wind turbine control wind farm flow modeling in complex terrain wind turbine noise modeling vertical axis wind turbine and offshore wind energy Readers from all over the globe are expected to greatly benefit from this Special Issue collection

regarding their own work and the goal of enabling the technological development of new environmentally friendly and cost effective wind energy systems in order to reach the target of 100% energy use from renewable sources worldwide by 2050

Proceedings of the Fifth International Technical Symposium on Deepwater Oil and Gas Engineering Baojiang Sun, Jinsheng Sun, Zhiyuan Wang, Litao Chen, Meiping Chen, 2024-03-23 This book is a compilation of selected papers from the Fifth International Technical Symposium on Deepwater Oil and Gas Engineering and the Fourth International Youth Forum on Gas Hydrate DWOG Hyd 2023 held in Qingdao China in October 2023 The book focuses on the advancement of techniques for the deepwater oil and gas exploitation and natural gas hydrate exploitation The book introduces new ideas for exploring deepwater oil gas and hydrate in a safe and efficient way Advances of the deepwater oil gas and hydrate drilling and production in South China Sea in oil and gas flow assurance and emerging technologies based on clathrate hydrate will be presented It is a valuable resource for both practitioners and academics working in the field of deepwater oil and gas engineering

Recent Advances in Urban Ventilation Assessment and Flow Modelling Riccardo Buccolieri, Jian Hang, 2019-04-23 This book contains twenty one original papers and one review paper published by internationally recognized experts in the Atmosphere Special Issue Recent Advances in Urban Ventilation Assessment and Flow Modelling years 2017 2019 The Special Issue includes contributions on recent experimental and modelling works techniques and developments mainly tailored to the assessment of urban ventilation on flow and pollutant dispersion in cities The study of ventilation is of critical importance as it addresses the capacity with which a built urban structure is capable of replacing the polluted air with ambient fresh air Here ventilation is recognized as a transport process that improves local microclimate and air quality and closely relates to the term breathability The efficiency with which street canyon ventilation occurs depends on the complex interaction between the atmospheric boundary layer flow and the local urban morphology The individual contributions to this Issue are summarized and categorized into four broad topics 1 outdoor ventilation efficiency and application development of ventilation indices 2 relationship between indoor and outdoor ventilation 3 effects of urban morphology and obstacles to ventilation and 4 ventilation modelling in realistic urban districts The results and approaches presented and proposed will be of great interest to experimentalists and modelers and may constitute a starting point for the improvement of numerical simulations of flow and pollutant dispersion in the urban environment for the development of simulation tools and for the implementation of mitigation strategies

Transfer Phenomena in Fluid and Heat Flows X Luiz Alberto Oliveira Rocha, Antonio F. Miguel, Andreas Öchsner, 2019-08-16 Special topic volume with invited peer reviewed papers only

Thermofluid Modeling for Energy Efficiency Applications Mohammad Masud Kamal Khan, Nur M.S Hassan, 2015-09-01 Thermofluid Modeling for Sustainable Energy Applications provides a collection of the most recent cutting edge developments in the application of fluid mechanics modeling to energy systems and energy efficient technology Each chapter introduces relevant theories alongside detailed real life case studies that demonstrate the value of thermofluid

modeling and simulation as an integral part of the engineering process Research problems and modeling solutions across a range of energy efficiency scenarios are presented by experts helping users build a sustainable engineering knowledge base The text offers novel examples of the use of computation fluid dynamics in relation to hot topics including passive air cooling and thermal storage It is a valuable resource for academics engineers and students undertaking research in thermal engineering Includes contributions from experts in energy efficiency modeling across a range of engineering fields Places thermofluid modeling and simulation at the center of engineering design and development with theory supported by detailed real life case studies Features hot topics in energy and sustainability engineering including thermal storage and passive air cooling Provides a valuable resource for academics engineers and students undertaking research in thermal engineering

Applied Computational Fluid Dynamics Hyoung Woo Oh,2012-03-14 This book is served as a reference text to meet the needs of advanced scientists and research engineers who seek for their own computational fluid dynamics CFD skills to solve a variety of fluid flow problems Key Features Flow Modeling in Sedimentation Tank Greenhouse Environment Hypersonic Aerodynamics Cooling Systems Design Photochemical Reaction Engineering Atmospheric Reentry Problem Fluid Structure Interaction FSI Atomization Hydraulic Component Design Air Conditioning System Industrial Applications of CFD **Recent Advancements in Mechanical Engineering** T. S. Sudarshan,Apurbba Kumar Sharma,R.D. Misra,P. K. Patowari,2024-06-10 This book presents the select proceedings of the 3rd International Conference on Recent Advancements of Mechanical Engineering ICRAME 2022 which was held during 4th to 6th February 2021 at National Institute of Technology Silchar The book entails the recent developments in different fields of mechanical engineering The topics covered in this book include thermal engineering design engineering production and industrial engineering and surface engineering The book will be useful for researchers and professionals working in the various fields of mechanical engineering **37th**

AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit ,2001 **Proceedings of the Third International Symposium on High Temperature Lamp Chemistry** Joseph M. Ranish,Charles W. Struck,1993 **Fuel Cell Science, Engineering and Technology** R. K. Shah,Satish G. Kandlikar,2004 **Advances in Fluid Mechanics III** M. Rahman,C. A. Brebbia,2000 Annotation This book contains papers presented at the Third International Conference on Advances in Fluid Mechanics *ITherm 2002* Cristina H. Amon,2002 **Basic Research and Technologies for Two-Stage-to-Orbit Vehicles** Dieter Jacob,Gottfried Sachs,Siegfried Wagner,2005-12-02 Focusing on basic aspects of future reusable space transportation systems and covering overall design aerodynamics thermodynamics flight dynamics propulsion materials and structures this report presents some of the most recent results obtained in these disciplines The authors are members of three Collaborative Research Centers in Aachen Munich and Stuttgart concerned with hypersonic vehicles A major part of the research presented here deals with experimental and numerical aerodynamic topics ranging from low speed to hypersonic flow past the external configuration and through inlet and nozzle Mathematicians and engineers jointly worked on

aspects of flight mechanics like trajectory optimization stability control and flying qualities Structural research and development was predominantly coupled to the needs for high temperature resistant structures for space vehicles **41st AIAA Aerospace Sciences Meeting & Exhibit** ,2003 **ISIJ International** ,2003 **Spalding's Official Foot Ball Guide** ,1906 Journal of Thermophysics and Heat Transfer ,2004 This journal is devoted to the advancement of the science and technology of thermophysics and heat transfer through the dissemination of original research papers disclosing new technical knowledge and exploratory developments and applications based on new knowledge It publishes papers that deal with the properties and mechanisms involved in thermal energy transfer and storage in gases liquids and solids or combinations thereof These studies include conductive convective and radiative modes alone or in combination and the effects of the environment Development of a Robust Tri-carbide Fueled Reactor for Multi-megawatt Space Power and Propulsion Applications Samim Anghaie,2004 An innovative reactor core design based on advanced mixed carbide fuels was analyzed for nuclear space power applications Solid solution mixed carbide fuels such as U Zr Nb c and U Zr Ta C offer great promise as an advanced high temperature fuel for space power reactors This study addressed the difficulties of fabricating these solid solution fuels in traditional space reactor forms and developed methods of processing these high temperature fuels to support the fabrication of the innovative square lattice honeycomb SLHC fuel design The design in addition to better lending itself to net shape fabrication with these advanced fuels also permits the development of an entire class of propulsion systems from 25 to 250 kN thrust with hydrogen exit temperatures of 2800 to 3000 K for an Isp of 930 to almost 1000 seconds

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