

Solidification and Melting



Model

☒ Solidification/Melting

Options

☒ Lever Rule

☐ Scheil Rule

Parameters

Mushy Zone Constant

☒ Include Pull Velocities

☒ Compute Pull Velocities

Flow Iterations per
Pull Velocity Iteration  

OK

Cancel

Help

Melting And Solidification In Fluent

LL Leslie



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High-Temperature Phase Change Materials for Thermal Energy Storage S. Harikrishnan, Hafiz Muhammad Ali, A D Dhass, 2024-07-31 High Temperature Phase Change Materials for Thermal Energy Storage covers the fundamentals thermal characteristics measurement design and applications of high temperature phase change materials PCMs for thermal energy storage supported by examples and numerical modeling The differences between low temperature and high temperature PCMs are examined with respect to thermophysical properties phase change properties and melting solidification processes with detailed coverage of how to alter or shorten the phase transition temperature range between melting and solidification providing routes for the utilization of PCMs for specific high temperature applications The book also addresses key challenges such as the design of PCM containers phase transition temperature with little deviation high latent heat capacity thermal conductivity viscosity efficiency ecocompatibility and cost This book is a valuable resource for researchers advanced students and scientists across the areas of energy storage power generation energy engineering thermodynamics materials science renewable energy energy management mechanical engineering and chemical engineering as well as engineers research and development professionals and other industry personnel with an interest in thermal energy storage design and materials Focuses on high temperature PCMs for thermal energy storage with real life applications Provides detailed information on fundamentals thermal characteristics measurement and design Addresses key challenges and includes examples numerical studies and modeling

Sustainable Design and Manufacturing 2014 Part 2 R. Setchi, R.J. Howlett, M. Naim, H. Seinz, **Insights of Thermal Energy Storage** Dr. Avinash Vishwanath Waghmare, 2024-07-20 This book delves into advanced methodologies for storing thermal energy emphasizing the high energy density and isothermal benefits of latent heat storage LHS using phase change materials PCM Focusing on solar water heating applications the study explores the enhancement of LHS performance through both experimental and numerical analyses with a central focus on the impacts of geometrical and operational parameters including various fin configurations and the use of nanomaterials to improve the thermal properties of paraffin wax The book presents comprehensive experimental results on LHS charging and discharging under diverse conditions comparing modified geometries and nanomaterial enhanced PCMs Additionally a robust numerical model simulates these processes and performs exergy analysis highlighting the significance of fin configurations and nanomaterial dispersion Insights of Thermal Energy Storage is an essential resource for researchers and practitioners aiming to optimize thermal energy storage systems for solar applications providing in depth analysis and practical solutions for enhanced energy efficiency

26th European Symposium on Computer Aided Process Engineering, 2016-06-17 26th European Symposium on Computer Aided Process Engineering contains the papers presented at the 26th European Society of Computer Aided Process Engineering ESCAPE Event held at Portoro Slovenia from June 12th to June 15th 2016 Themes discussed at the conference include Process product Synthesis Design and Integration Modelling

Numerical analysis Simulation and Optimization Process Operations and Control and Education in CAPE PSE Presents findings and discussions from the 26th European Society of Computer Aided Process Engineering ESCAPE Event

Proceedings of MEACM 2020 Lifang Zheng, Chaoyang Sun, Kheng-Lim Goh, 2021-05-31 This book gathers the proceedings of the 4th International Conference on Mechanical Engineering and Applied Composite Materials MEACM held in Beijing China on October 24 25 2020 The conference brought together researchers from several countries and covered all major areas of mechanical engineering and applied composite materials new applications and current trends The topics covered include structure and design mechanical manufacturing and automation robotics and mechatronics mechanical behavior of nanomaterials nanocomposites and composite mechanics Given its scope the book offers a source of information and inspiration for researchers seeking to improve their work and gather new ideas for future developments □□□□□□□□/□□□, 2004 CFD FLUENT CFD *Advances in Materials, Mechanics and Manufacturing* Fakher Chaari, Maher Barkallah, Anas Bouguecha, Bassem Zouari, Mohamed Taoufik Khabou, Mounir Kchaou, Mohamed Haddar, 2019-09-17 This book reports on cutting edge findings concerning characterization of material behavior material modeling and simulation and applications in the field of manufacturing Based on the second International Conference on Advanced Materials Mechanics Manufacturing A3M2018 organized by the Laboratory of Mechanics Modeling and Manufacturing LA2MP of the National School of Engineers of Sfax Tunisia the book covers a variety of topics such as experimental analysis of material plasticity and fatigue numerical simulation of material behavior and optimization of manufacturing processes such as cutting and injection among others It offers a timely snapshot on current research and applications offering a bridge to facilitate communication and collaboration between academic and industrial researchers **Energy Technology 2025** Onuralp Yücel, Chukwunwike Iloeje, Shafiq Alam, Donna Post Guillen, Fiseha Tesfaye, Lei Zhang, Susanna A. C. Hockaday, Neale R. Neelameggham, Hong Peng, Nawshad Haque, Alafara Abdullahi Baba, Tuan A. H. Nguyen, Adam C. Powell, Duhan Zhang, 2025-02-24 This collection is focused on industrial energy sustainability and CO2 management including processes that improve energy efficiency and reduce or eliminate industrial GHG emissions Topics address technology areas such as clean energy technologies innovative beneficiation smelting technologies process intensification as well as CO2 capture and conversion for industrial applications Areas of interest include but are not limited to Energy and materials efficient minerals extraction and processing including waste heat recovery materials recycling and other methodologies for low cost energy materials production Advances in design and optimization of renewable and low carbon energy harvesting technologies and energy carriers including theory new technology concepts simulations and demonstrations relevant to decarbonizing materials extraction and processing Systems assessment for sustainable materials processing including techno economic life cycle circularity technology scale up and regulatory impacts Low carbon technologies for advanced materials conversion including carbon and other GHG reduction metallurgy in ferrous nonferrous and reactive metals capture and mineralization carbon upgrade to chemicals and

use of low carbon fuel and feedstock Advances in materials for energy and carbon mitigation such as infrared reflecting endothermic and carbon absorbing materials for applications such as urban heat island mitigation and space cooling

Handbook of Research on Food Processing and Preservation Technologies Megh R. Goyal, Preeti Birwal, Monika Sharma, 2022-02-28 The Handbook of Research on Food Processing and Preservation Technologies is a 5 volume collection that highlights various design development and applications of novel and innovative strategies for food processing and preservation Together the 5 volumes will prove to be valuable resource for researchers scientists students growers traders processors and others in the food processing industry

RECENT RESEARCHES ON ENGINEERING: Research, Methodology and Innovation Mehmet Fatih DÖLEKOĞLU, Ali KILIÇER, 2024-12-22

Thermal Energy Storage Ibrahim Dincer, Marc A. Rosen, 2021-09-14 Thermal Energy Storage Systems and Applications Provides students and engineers with up to date information on methods models and approaches in thermal energy storage systems and their applications in thermal management and elsewhere Thermal energy storage TES systems have become a vital technology for renewable energy systems and are increasingly being used in commercial and industrial applications including space and water heating cooling and air conditioning TES technology has the potential to be a sustainable cost effective and eco friendly approach for facilitating more effective use of thermal equipment and correcting the imbalance that can occur between the supply and demand of energy The Third Edition of Thermal Energy Storage Systems and Applications contains detailed coverage of new methodologies models experimental works and methods in the rapidly growing field Extensively revised and updated throughout this comprehensive volume covers integrated systems with energy storage options environmental impact and sustainability design analysis assessment criteria advanced tools in exergy and extended exergy and more New and expanded chapters address topics such as renewable energy systems in which thermal energy storage is essential sensible and latent TES systems and numerical modelling simulation and analysis of TES systems Integrating academic research and practical information this new edition Discusses a variety of practical TES applications their technical features and potential benefits Explores recent developments and future directions in energy storage technologies Covers the latest generation of thermal storage systems and a wide range of applications Features new chapters case studies and chapter problems throughout the text Includes pertinent background information on thermodynamics fluid flow and heat transfer Contains numerous illustrative examples full references and appendices with conversion factors and thermophysical properties of various materials Thermal Energy Storage Systems and Applications Third Edition is the perfect textbook for advanced undergraduate and graduate courses in mechanical chemical and electrical engineering and a highly useful reference for energy engineers and researchers

2023 International Conference on Energy Engineering Zhe Chen, Wenming Yang, Hao Chen, 2024-08-31 This book contains the selected proceedings of the 2023 International Conference on Energy Engineering held in Xi an China December 15 17 2023 The conference explores advances and practical applications in energy research

and engineering and delves into innovative approaches in four specialized tracks New Transportation Energy Power and Energy Applied Thermal Energy and Oil and Natural Gas Engineering It explores strategies for accelerating the transition to renewable energy optimizing power systems harnessing thermal energy and advancing oil and gas engineering practices It benefits from a wealth of knowledge shared by academics and practitioners fostering cross disciplinary collaboration The latest findings in electric vehicles smart grids thermal systems and reservoir engineering will be explored to find solutions that promote sustainability efficiency and environmental stewardship *Modern Technologies in Materials, Mechanics and Intelligent Systems* X.Y. Huang,X.B. Zhu,K.L. Xu,J.H. Wu,2014-10-10 Selected peer reviewed papers from the 2014 4th International Conference on Intelligent System and Applied Material GSAM 2014 August 23 24 2014 Taiyuan China **CFD Modeling and Simulation in Materials Processing 2018** Laurentiu Nastac,Koulis Pericleous,Adrian S. Sabau,Lifeng Zhang,Brian G. Thomas,2018-01-10 This collection presents contributions on computational fluid dynamics CFD modeling and simulation of engineering processes from researchers and engineers involved in the modeling of multiscale and multiphase phenomena in material processing systems The following processes are covered Additive Manufacturing Selective Laser Melting and Laser Powder Bed Fusion Ironmaking and Steelmaking Ladle Metallurgical Furnace EAF Continuous Casting Blown Converter Reheating Furnace Rotary Hearth Furnace Degassing High Pressure Gas Atomization of Liquid Metals Electroslog Remelting Electrokinetic Deposition Friction Stir Welding Quenching High Pressure Die Casting Core Injection Molding Evaporation of Metals Investment Casting Electromagnetic Levitation Ingot Casting Casting and Solidification with External Field electromagnetic stirring and ultrasonic cavitation Interaction and Microstructure Evolution The collection also covers applications of CFD to engineering processes and demonstrates how CFD can help scientists and engineers to better understand the fundamentals of engineering processes **Energy Storage** Umakanta Sahoo,2021-08-24 ENERGY STORAGE Written and edited by a team of well known and respected experts in the field this new volume on energy storage presents the state of the art developments and challenges in the field of renewable energy systems for sustainability and scalability for engineers researchers academicians industry professionals consultants and designers The world s energy landscape is very complex Fossil fuels especially because of hydraulic fracturing are still a mainstay of global energy production but renewable energy sources such as wind solar and others are increasing in importance for global energy sustainability Experts and non experts agree that the next game changer in this area will be energy storage Energy storage is crucial for continuous operation of power plants and can supplement basic power generation sources over a stand alone system It can enhance capacity and leads to greater security including continuous electricity supply and other applications A dependable energy storage system not only guarantees that the grid will not go down but also increases efficacy and efficiency of any energy system This groundbreaking new volume in this forward thinking series addresses all of these issues laying out the latest advances and addressing the most serious current concerns in energy storage Whether for the veteran

engineer or the student this latest volume in the series *Advances in Renewable Energy* is a must have for any library This outstanding new volume Is practically oriented and provides new concepts and designs for energy storage systems offering greater benefit to the researcher student and engineer Offers a comprehensive coverage of energy storage system design which is also useful for engineers and other professionals who are working in the field of solar energy biomass polygeneration cooling and process heat Filled with workable examples and designs that are helpful for practical applications also offers a thorough novel case study on hybrid energy systems with storage Is useful as a textbook for researchers students and faculty for understanding new ideas in this rapidly emerging field **Energy and Sustainability VIII** Tadeu, A.,2019-09-10 Originating from the 8th edition of the Energy and Sustainability conference the research included in this volume contribute to the increasing amount of interest in renewable energy resources and the search for maintainable energy policies Energy production and distribution need to respond to the modern world s dependency on conventional fuels

Advances in Clean Energy and Sustainability Suryanarayana Doolla,Zakir Hussain Rather,Venkatasailanathan Ramadesigan,2023-05-21 This book presents selected papers from the 8th International Conference on Advances in Energy Research ICAER 2022 providing coverage encompassing advanced conventional energy technology renewable and non conventional energy technology electric mobility energy storage energy environment and society industry innovations in energy sector coupled energy system and energy education The contents of this book are of use to researchers from not only scientific background but also economics and anthropology It encourages researchers to conduct research on the ways to assess and analyse the acceptance of the novel energy forms among the mass population from a financial and social perspective *Modeling and Simulation in Chemical Engineering* Christo Boyadjiev,2021-12-08 This book presents a theoretical analysis of the modern methods used for modeling various chemical engineering processes Currently the two primary problems in the chemical industry are the optimal design of new devices and the optimal control of active processes Both of these problems are often solved by developing new methods of modeling These methods for modeling specific processes may be different but in all cases they bring the mathematical description closer to the real processes by using appropriate experimental data In this book the authors detail a new approach for the modeling of chemical processes in column apparatuses Further they describe the types of neural networks that have been shown to be effective in solving important chemical engineering problems Readers are also presented with mathematical models of integrated bioethanol supply chains IBSC that achieve improved economic and environmental sustainability The integration of energy and mass processes is one of the most powerful tools for creating sustainable and energy efficient production systems This book defines the main approaches for the thermal integration of periodic processes direct and indirect and the recent integration of small scale solar thermal dryers with phase change materials as energy accumulators An exciting overview of new approaches for the modeling of chemical engineering processes this book serves as a guide for the important innovations

being made in theoretical chemical engineering **Emerging Nanotechnologies for Renewable Energy** Waqar Ahmed, Matthew Booth, Ehsan Nourafkan, 2021-02-16 Emerging Nanotechnologies for Renewable Energy offers a detailed overview of the benefits and applications of nanotechnology in the renewable energy sector The book highlights recent work carried out on the emerging role of nanotechnology in renewable energy applications ranging from photovoltaics to battery technology and energy from waste Written by international authors from both industry and academia the book covers topics including scaling up from laboratory to industrial scale It is a valuable resource for students at postgraduate and advanced undergraduate levels researchers in industry and academia technology leaders and policy and decision makers in the energy and engineering sectors Offers insights into a wide range of nanoscale technologies for the generation storage and transfer of energy Shows how nanotechnology is being used to create new more environmentally friendly energy solutions Assesses the challenges involved in scaling up nanotechnology based energy solutions to an industrial scale *CFD-Modellierung* Rüdiger Schwarze, 2012-05-29 In diesem kompakten Lehrbuch legt der Autor die Methodik der numerischen Simulation von Strömungsprozessen dar Nach einer konzisen Erläuterung der Grundlagen lernen Leser das Potenzial der Methodik anhand von Anwendungsbeispielen kennen Demonstriert werden sowohl einfache wie komplexe Probleme Während Leser die einfachen Problemstellungen mithilfe von Open Source Softwarepaketen selbst bearbeitet können sind die komplexen Beispiele aus aktuellen grundlagenorientierten und aus anwendungsnahen Forschungsprojekten des Autors abgeleitet

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