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Ensheng Dong



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ASHRAE Handbook, 2005 *Principles and Practices of Lyophilization in Product Development and Manufacturing*

Feroz Jameel, 2023-04-24 The biotechnology biopharmaceutical sector has tremendously grown which led to the invention of engineered antibodies such as Antibody Drug Conjugates ADCs Bispecific T cell engager BITES Dual Variable Domain DVD Chimeric Antigen Receptor Modified Tcells CART that are currently being used as therapeutic agents for immunology and oncology disease conditions In addition to other pharmaceuticals and biopharmaceuticals all these novel formats are fragile with respect to their stability structure under processing conditions meaning marginal stability in the liquid state and often require lyophilization to enhance their stability and shelf life This book contains chapters topics that will describe every aspect of the lyophilization process and product development and manufacturing starting from the overview of lyophilization process equipment required characterization of the material design and development of the formulation and lyophilization process various techniques for characterization of the product scale up tech transfer and validation It also describes the application of CFD coupled with mathematical modeling in the lyophilization process and product development scale up and manufacturing Additionally Principles and Practice of Lyophilization Process and Product Development contains an entire dedicated section on Preservation of Biologicals comprised of nine chapters written by experts and including case studies

Scientific and Technical Aerospace Reports, 1981 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 *Sustainable Energy* Seung Bok Choi, Fauziah Shahul Hamid, Li Yuan Han, 2014-02-06 Selected peer reviewed papers from the 2013 2nd International Conference on Sustainable Energy and Environmental Engineering ICSEEE 2013 28 29 December 2013 Shenzhen China *Proceedings of the ASME-JSME Thermal Engineering Joint Conference:*

Natural convection John R. Lloyd, Yasuo Kurosaki, 1991 **Localized Energy Transition in the 4th Industrial Revolution**

Opeyeolu Timothy Laseinde, Andrew C. Eloka-Eboka, 2024-10-24 This book presents a holistic view on localized energy transition while addressing current challenges associated with the production of biofuels introducing new materials to produce solar photovoltaic PV panels and digital systems for sustainable energy monitoring on a small scale carbon capture and sequestration Also each chapter of the book addresses specific aspects of the renewable and sustainable energy space while focusing more on energy improvement and storage technologies that are practical focused Features Offers useful information on new forms of renewable energy generation with reference to Industry 4.0 Illustrates practical approaches to energy transition Provides guidance on renewable energy sources and energy storage systems Discusses the application of the Fourth Industrial Revolution 4IR related approaches to emerging energy storage technologies Includes studies that reveal approaches to realizing productivity profitability and increased return on investment ROI This book is aimed at graduate students and researchers in mechanical chemical and mechatronics engineering and renewable energy systems

Computational Analysis of Transport Phenomena and Performance of PEMFC Bengt Sundén, Shian Li, Fereshteh Salimi Nanadegani, 2025-08-01 Computational Analysis of Transport Phenomena and Performance of PEMFC presents a practical guide to the mathematical modeling and simulation of PEMFCs for all transport processes of mass momentum energy ions and electrons Tackling one of the most important aspects of next generation PEMFC technologies the book brings together the state of the art to model and simulate phenomena and processes at various scales including catalyst layers electrodes membranes and bipolar plates of PEMFC unit cells and stacks Chapters introduce PEM fuel cells and explain the underlying electrochemical and thermodynamic concepts involved present a detailed breakdown of the governing equations for overall mass momentum and energy conservation charge ions and electrons conservation water generation and its transport heat generation and heat transfer and cooling methods offer an in depth analysis of the various single and multi dimensional modelling approaches and considerations including lattice Boltzmann approach artificial neural networks exergy and energy analysis estimation of fuel and oxidant consumption the differences between cell scale stack scale and system scale approaches and more Explains modeling transport phenomena and performance at multiple levels Discusses the unique characteristics of modeling phenomena in the various layers and at various scales in PEM fuel cells alongside formulations and necessary sub models Highlights the limitations and opportunities for machine learning approaches as well as exergy and energy analysis Provides numerically solved examples to illustrate modeling approaches Géotechnique, 1996

Proceedings, 1991 **Computational Fluid Dynamics** Graham de Vahl Davis, C. A. J. Fletcher, 1988 Recorded in this book is recent research on the development of efficient computational techniques and their application to fluid flow problems of engineering and scientific importance It contains invited and contributed papers in the following general research areas Boundary Layer Flow Combustion and Chemically Reacting Flows Free Surface Flows Geophysical Flows Inviscid Flow Meteorological Flows Non Newtonian Flow Numerical Methods and Analysis Porous Media Separated Flow Shallow Water Problems Shock Wave Interactions Stability and Transition Supercomputers Supersonic and Transonic Flow Thermal Convection Turbulent Flows and Modelling Viscous Flow and Vortex Flow *Mechanical Engineering*, 1921

Glastechnische Berichte, 1987 Vols include Patentbericht New Scientist, 1969 *Air Conditioning, Heating and Ventilating*, 1959 *Materials Science and Information Technology* Cai Suo Zhang, 2012-01-03 Selected peer reviewed papers from the 2011 International Conference on Material Science and Information Technology MSIT 2011 September 16 18 2011 Singapore **Nuclear Technology**, 1992 ASEE ... Profiles of Engineering & Engineering Technology Colleges, 1998 **Modeling and Approximation in Heat Transfer** Leon R. Glicksman, John H. Lienhard V, 2016-08-30 Engineers face many challenges in systems design and research Modeling and Approximation in Heat Transfer describes the approach to engineering solutions through simplified modeling of the most important physical features and approximating their behavior Systematic discussion of how modeling and associated synthesis can be carried out is included in engineering

practice these steps very often precede mathematical analysis or the need for precise results **Energy Research Abstracts** ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes *ASEE 1995-1996 Profiles of Engineering & Engineering Technology Colleges* ,1997

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