

Wolfgang Pietsch

Agglomeration Processes

Phenomena, Technologies, Equipment



Agglomeration Processes Phenomena Technologies Equipment

Yijin Wang



Agglomeration Processes Phenomena Technologies Equipment:

Agglomeration Processes Wolfgang B. Pietsch, 2008-07-11 Agglomeration is integral to the processes of modification of powders production of composites and creation of new materials which are required in pharmaceuticals foods chemicals fertilizers and agrochemicals minerals ceramics metallurgy and all material producing industries The binding mechanisms and the particle behavior as well as the characteristics of the processes and the resulting agglomerates are the same whether they are occurring in the ultra clean pharmaceutical or food industries or in dirty minerals or waste processing plants The book introduces the interdisciplinary approach to the development of new concepts and the solution of problems It is a complete and up to date practical guide describing the various agglomeration phenomena and industrial techniques for size enlargement In addition to introducing the properties of agglomerates and the characteristics of the different methods descriptions of the machinery and discussions of specific equipment features are the main topics The detailed evaluation of the subject is based on the authors experience as student researcher teacher developer designer vendor and user as well as expert and consultant in the field of agglomeration its technologies and products and is complemented by the know how of colleagues who are active in specific areas and information from vendors It is intended for everybody working in industries that process and handle particulate solids as it aims to help understand and control unwanted agglomeration as well as use improve and develop methods for the beneficial size enlargement by agglomeration **Agglomeration in Industry, 2**

Volume Set Wolfgang B. Pietsch, 2004-12-27 An up to date overview dealing with the occurrence and key applications of agglomeration including unwanted adhesion and beneficial size enlargement in pharmaceutical food and animal feed chemical fertilizer and agrochemical mineral building material and ceramic metal solid fuel as well as other industries Furthermore the book emphasizes recent developments at the level of single particles and applications of agglomeration phenomena in nanotechnology The author has a vast academic and industrial experience as researcher teacher developer designer vendor and user He is an expert and consultant in the field of agglomeration its technologies and products This background makes the detailed evaluation of the subject possible Wolfgang Pietsch has held a number of leading positions in both US and German companies and is a frequent speaker at conferences and seminars He has already written three earlier books on agglomeration Intended for everybody working in companies that process and handle particulate solids this book helps in understanding and controlling unwanted agglomeration as well as promoting the application development and improvement of methods for the beneficial use of agglomeration The Densification Process of Wood Waste Peter

Krizan, 2015-04-24 This book examines the very current issue of wood waste treatment to a solid biofuel for energy recovery The book is dedicated to research in the densification processes of wood waste and its mathematical description for uniaxial densification into compact biofuels briquettes This monograph derived from an experimental research of densification process in laboratory conditions and also in real technologies in practice provides a thorough understanding of the

influencing parameters impact during densification of wood waste into solid biofuel The book shows the experimental strategy to determine the effects of individual parameters and specifies their impact on the resulting density of the briquettes The publication also defines the level of importance of the results in terms of optimization of the densification machine s pressing chamber Using a designed mathematical model which was a result of experimental research and which can serve to predict the density of briquettes for some predefined densification conditions and can aid in the design of densification machines the author has made this topic accessible beyond his discipline biofuels producers and the academic community

Treatise on Process Metallurgy Alexander McLean, Roderick Guthrie, Sridhar Seetharaman, H. Y. Sohn, 2024-08-23
Treatise on Process Metallurgy Volume Four Industrial Production provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics

Springer Handbook of Wood Science and Technology Peter Niemz, Alfred Teischinger, Dick Sandberg, 2023-04-01 This handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity It describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials The different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts The discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery Core concepts of wood applications quality and life cycle assessment of this important natural resource are presented The book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards Written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements It is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science

and technology **Granulation** Agba D. Salman, Michael Hounslow, Jonathan P.K. Seville, 2006-11-24 Granulation provides a complete and comprehensive introduction on the state of the art of granulation and how it can be applied both in an academic context and from an industrial perspective Coupling science and engineering practices it covers differing length scales from the sub granule level through behaviour through single granules to bulk granule behaviour and equipment design With special focus on a wide range of industrially relevant areas from fertilizer production through to pharmaceuticals Experimental data is complemented by mathematical modelling in this emerging field allowing for a greater understanding of the basis of particle products and this important industry sector Four themes run through the book 1 The Macro Scale processing for Granulation including up to date descriptions of the methods used for granulation and how they come about and how to monitor on line these changes 2 The Applications of granulation from an industrial perspective with current descriptive roles and how they are undertaken with relevance to industry and effective properties 3 Mechanistic descriptions of granulation and the different rate processes occurring within the granulator This includes methods of modelling the process using Population Balance Equations and Multi level Computational Fluid Dynamics Models 4 The Micro Scale Granules and Smaller looking at single granules and their interactions and modelling while also considering the structure of granules and their constituent liquid bridges Covers a wide range of subjects and industrial applications Provides an understanding of current issues for industrial and academic environments Allows the reader an understanding of the science behind engineered granulation processes Industrial High Pressure Applications Rudolf Eggers, 2012-07-11 Industrial high pressure processes open the door to many reactions that are not possible under normal conditions These are to be found in such different areas as polymerization catalytic reactions separations oil and gas recovery food processing biocatalysis and more The most famous high pressure process is the so called Haber Bosch process used for fertilizers and which was awarded a Nobel prize Following an introduction on historical development the current state and future trends this timely and comprehensive publication goes on to describe different industrial processes including methanol and other catalytic syntheses polymerization and renewable energy processes before covering safety and equipment issues With its excellent choice of industrial contributions this handbook offers high quality information not found elsewhere making it invaluable reading for a broad and interdisciplinary audience **Food Powders Properties and Characterization** Ertan

Ermiş, 2020-10-29 Food powders are an increasingly important aspect of processed food worldwide Essential factors such as ease of storage and transport and usage convenience have greatly benefited the food industry and promise further advancements in processing techniques Food powders can be stored for a longer period of time than other food products making them essential for food supply in many regions of the world There have been numerous research works on food powders properties and characterization but there has not been an updated comprehensive review in this field Food Powders Properties and Characterization is designed as an essential reference for individuals in the food industry and academia

seeking a singular source that covers most of the basic aspects of food powders With chapters focusing on the general properties of food powders characterization of particle and bulk properties adhesion and surface properties this text presents comprehensive and fully up to date coverage of this challenging and important field

Guidelines for Safe Handling of Powders and Bulk Solids CCPS (Center for Chemical Process Safety), 2010-08-13 Powders and bulk solids handled widely in the chemical pharmaceutical agriculture smelting and other industries present unique fire explosion and toxicity hazards Indeed substances which are practically inert in consolidated form may become quite hazardous when converted to powders and granules The U S Chemical Safety and Hazard Investigation Board is currently investigating dust explosions that occurred in 2003 at WestPharma CTA Acoustics and Hayes Lemmerz and is likely to recommend that companies that handle powders or whose operations produce dust pay more attention to understanding the hazards that may exist at their facility This new CCPS guidelines book will discuss the types of hazards that can occur in a wide range of process equipment and with a wide range of substances and will present measures to address these hazards

Alloy Design and Process Innovations Prashanth Konda Gokuldoss, Zhi Wang, 2020-04-15 Additive manufacturing AM is one of the manufacturing processes that warrants the attention of industrialists researchers and scientists because of its ability to produce materials with a complex shape without theoretical restrictions and with added functionalities There are several advantages to employing additive manufacturing as the primary additive manufacturing process However there exist several challenges that need to be addressed systematically A couple such issues are alloy design and process development Traditionally alloys designed for conventional cast powder metallurgical processes were fabricated using advanced AM processes This is the wrong approach considering that the alloys should be coined based on the process characteristics and meta stable nature of the process Hence we must focus on alloy design and development for AM that suits the AM processes The AM processes however improve almost every day either in terms of processing capabilities or processing conditions Hence the processing part warrants a section that is devoted to these advancements and innovations Accordingly the present Special Issue book focuses on two aspects of alloy development and process innovations Here 45 articles are presented covering different AM processes including selective laser melting electron beam melting laser cladding direct metal laser sintering ultrasonic consolidation wire arc additive manufacturing and hybrid manufacturing I believe that this Special Issue bears is vital to the field of AM and will be a valuable addition

Biomass Compaction Peter Krizan, 2021-12-09 This book discusses the scientific process of biomass compaction focusing on pressing chamber parameters and their influence on the quality of extrusions from biomass It yields new knowledge in the field of wood biomass pressing technology and contains a thorough and detailed theoretical analysis of the pressing chamber of pressing machines and the influence they have on the resulting quality of extrusions Coverage includes the proposal and evaluation of experimental research dealing with the definition of different pressing chamber parameters in pressing machines and their effects on the quality of extrusions definition and specification of the dependencies of chamber

parameters based on the resulting quality of extrusion given by the mechanical indicators of quality are also explored Furthermore the work describes the design and manufacture of an experimental pressing stand which allows for experiments to be performed determining the effects that some technological material and construction parameters have on the resulting quality of extrusions The desired pressing method length and conicity of the pressing chamber are experimentally determined through the uniaxial compaction of wood biomass where results and dependencies are expressed graphically Biomass Compaction The Effects of Pressing Chamber Design Parameters on Extrusion Quality will be a welcomed resource for researchers and engineers working for producers of solid biofuels from biomass densification briquetting pelleting or compacting machines producers as well as technology plant operators and those working in the biomass treatment area

Iron Ores and Iron Oxide Materials Volodymyr Shatokha, 2018-07-11 This book provides the multidisciplinary reading audience with a comprehensive state of the art overview of research and innovations in the relationship between iron ores and iron ore materials The book covers industrial sectors dealing with exploration and processing of iron ores as well as with advanced applications for iron ore materials and therefore entails a wide range of research fields including geology exploration beneficiation agglomeration reduction smelting and so on thus encouraging life cycle thinking across the entire production chain Iron remains the basis of modern civilization and our sustainable future deeply depends upon our ability to satisfy the growing demand for iron and steel while decoupling hazardous emissions from economic growth Therefore environmental sustainability aspects are also broadly addressed In response to socioeconomic and climatic challenges the iron ore sector faces this book delivers a vision for the new opportunities linked to deployment of the best available innovative and breakthrough technologies as well as to advanced material applications

Production of Biofuels and Numerical Modeling of Chemical Combustion Systems Miguel Torres García, Juan Francisco García Martín, 2021-08-18 Biofuels have recently attracted a lot of attention mainly as alternative fuels for applications in energy generation and transportation The utilization of biofuels in such controlled combustion processes has the great advantage of not depleting the limited resources of fossil fuels while leading to emissions of greenhouse gases and smoke particles similar to those of fossil fuels On the other hand a vast amount of biofuels are subjected to combustion in small scale processes such as for heating and cooking in residential dwellings as well as in agricultural operations such as crop residue removal and land clearing In addition large amounts of biomass are consumed annually during forest and savanna fires in many parts of the world These types of burning processes are typically uncontrolled and unregulated Consequently the emissions from these processes may be larger compared to industrial type operations Aside from direct effects on human health especially due to a sizeable fraction of the smoke emissions remaining inside residential homes the smoke particles and gases released from uncontrolled biofuel combustion impose significant effects on the regional and global climate Estimates have shown the majority of carbonaceous airborne particulate matter to be derived from the combustion of biofuels and biomass Production

of Biofuels and Numerical Modelling of Chemical Combustion Systems comprehensively overviews and includes in depth technical research papers addressing recent progress in biofuel production and combustion processes To be specific this book contains sixteen high quality studies fifteen research papers and one review paper addressing techniques and methods for bioenergy and biofuel production as well as challenges in the broad area of process modelling and control in combustion processes

Selected paper from 6th International Conference on Renewable Energy Sources (ICoRES 2019)

Marcin Jewiarz, 2020-11-23 Thank you for reaching for this book It is a summary of the research presented at the 6th International Conference on Renewable Energy Sources ICoRES19 which took place in Krynica Poland in June 2019 This event is the most recognizable scientific meeting connected to RES in Poland From the very beginning this conference has been a unique occasion for gathering Polish and international researchers perspectives on renewable energy sources and balancing them against governmental policy considerations Accordingly the conference has also offered panels to discuss best practices and solutions with local entrepreneurs and federal government bodies The meeting attracts not only scientists but also industry representatives as well as local and federal government personnel We are open to new and fresh ideas concerning renewable energy which is why so many scientists from Central and Eastern Europe visit Krynica to discuss the Green Future of this region In 2019 the conference was organized by the University of Agriculture in Krakow in cooperation with the AGH University of Science and Technology Krakow the State Agrarian and Engineering University in Podilya the University of ilina the International Commission of Agricultural and Biosystems Engineering CIGR and the Polish Society of Agricultural Engineering Honorary auspices were made by the Ministry of Science and Higher Education of the Republic of Poland the rector of the University of Agriculture in Krakow the rector of the AGH University of Science and Technology and the rector of the State Agrarian and Engineering University in Podilya

Pretreatment Techniques for Biofuels and Biorefineries

Zhen Fang, 2013-01-04 This book includes 19 chapters contributed by the world s leading experts on pretreatment methods for biomass It extensively covers the different types of biomass e g molasses sugar beet pulp cheese whey sugarcane residues palm waste vegetable oil straws stalks and wood various pretreatment approaches e g physical thermal chemical physicochemical and biological and methods that show the subsequent production of biofuels and chemicals such as sugars ethanol extracellular polysaccharides biodiesel gas and oil In addition to traditional methods such as steam hot water hydrothermal diluted acid organosolv ozonolysis sulfite milling fungal and bacterial microwave ultrasonic plasma torrefaction pelletization gasification including biogas and liquefaction pretreatments it also introduces and discusses novel techniques such as nano and solid catalysts organic electrolyte solutions and ionic liquids This book offers a review of state of the art research and provides guidance for the future paths of developing pretreatment techniques of biomass for biofuels especially in the fields of biotechnology microbiology chemistry materials science and engineering It intends to provide a systematic introduction of pretreatment techniques It is an accessible reference work for students researchers

academicians and industrialists in biorefineries Zhen Fang is a Professor of Bioenergy and the leader and founder of the biomass group at the Xishuangbanna Tropical Botanical Garden of the Chinese Academy of Sciences He is also an adjunct full Professor of Life Sciences at the University of Science and Technology of China

Application of Waste Materials in Lightweight Aggregates Franus Małgorzata, 2023-11-27 Application of Waste Materials in Lightweight Aggregates presents the current state of knowledge on aggregates production methods their characteristics current standards and legal regulations In addition the book briefly discusses the issue of the presence of different types of waste in the environment including municipal agricultural energy and mining industries their characteristics and uses for the production of lightweight aggregates This book serves as a source of academic information on the course and conditions of using various waste treatment processes for academics engineers professionals and students interested in environmental engineering as well as for companies dealing with recycling and disposal of waste

Encyclopedia of Food Safety, 2013-12-12 With the world's growing population the provision of a safe nutritious and wholesome food supply for all has become a major challenge To achieve this effective risk management based on sound science and unbiased information is required by all stakeholders including the food industry governments and consumers themselves In addition the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among authorities in countries around the world With some 280 chapters the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics which may be grouped under the following general categories History and basic sciences that support food safety Foodborne diseases including surveillance and investigation Foodborne hazards including microbiological and chemical agents Substances added to food both directly and indirectly Food technologies including the latest developments Food commodities including their potential hazards and controls Food safety management systems including their elements and the roles of stakeholders The Encyclopedia provides a platform for experts from the field of food safety and related fields such as nutrition food science and technology and environment to share and learn from state of the art expertise with the rest of the food safety community Assembled with the objective of facilitating the work of those working in the field of food safety and related fields such as nutrition food science and technology and environment this work covers the entire spectrum of food safety topics into one comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as contributions by the foremost authorities in their fields unbiased and concise overviews on a multitude of food safety subjects references for further information and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply sound scientific information is key to effectively and efficiently assessing managing and communicating on food safety risks Yet professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise This single

source of concise reliable and authoritative information on food safety has more than ever become a necessity

Production of Materials from Sustainable Biomass Resources Zhen Fang, Richard L. Smith, Jr, Xiao-Fei

Tian, 2019-04-04 This book presents a collection of studies on state of art techniques developed specifically for lignocellulose component derivation and for the production of functional materials composite polymers carbonaceous biocatalysts and pellets from lignocellulosic biomass with an emphasis on using sustainable chemistry and engineering to develop innovative materials and fuels for practical application Technological strategies for the physical processing or biological conversion of biomass for material production are also presented All chapters were contributed by respected experts in the field from around the globe providing a broad range of perspectives on cutting edge applications The book offers an ideal reference guide for academic researchers and industrial engineers in the fields of natural renewable materials biorefinery of lignocellulose biofuels and environmental engineering It can also be used as a comprehensive reference source for university students in chemical engineering material science and environmental engineering Optimization of Micro Processes in Fine Particle Agglomeration by Pelleting Flocculation Benjamin Oyegbile, 2016-06-22 Efficient particle separation in order to meet stringent regulatory standards represent one of the biggest challenges facing the process industry operators today Emerging environmental problems such as climate change population growth and natural resource depletion make it more compelling to undertake research into alternative phase separation techniques and optimization of existing ones Meeting this challenge requires innovative revolutionary and integrated approach in the design and optimization of various unit processes in fine particle separation Flocculation is widely used as an effective phase separation technique across many process industries such as water and wastewater treatment and in minerals processing In this work a new pre treatment technique was developed using a patented bench scale reactor unit as a technical proof of concept Furthermore the book provides a valuable insight into the hydrodynamics and fluid particle interactions within the agglomeration units The relatively high solids content of the stable pellets approximately 30 % and very low residual turbidity of the post sedimentation supernatant 7 NTU clearly demonstrate the potential of this technique In addition to significantly improving the subsequent solid liquid separation efficiency this study also showed that the effluent can be recycled back into the sewer network or utilized for non portable reuse The findings obtained from this research will be extremely useful in the scaling up and optimization of the reactor system *Encyclopedia of Food and Health* , 2015-08-26 Approx 3876 pages Approx 3876 pages

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