Influence Of Binder Formulation On Batch Agglomeration

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Energetic Materials Research, Applications, and New Technologies
Injection Molding of Metals and Ceramics
Proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements
Materials Design and Applications
Energetic Polymers
Scientific Bases for the Preparation of Heterogeneous Catalysts
Binder and Polymer Assisted Powder Processing
The Science and Engineering of Granulation Processes
Powder Injection Molding
New Trends and Developments in Automotive System Engineering
Handbook of Pharmaceutical Granulation Technology
Aulton's Pharmaceutics E-Book
Power
Green Adhesives
Chemistry and Technology of Agrochemical Formulations
Proceedings of the World Conference on Oilseed Technology and Utilization
Carbon Allotropes
Developing Solid Oral Dosage Forms
Journal of Ferrocement
Pharmaceutical Blending and Mixing
Handbook of Pharmaceutical Wet Granulation
Granulation
Nuclear Science Abstracts

DELACRUZ KENDRICK

Environmental Impact II ScholarlyEditions
This up-to-date overview provides the latest information on the performance, sensitivity, strength and processability aspects of propellants and explosive formulations, with the nature of polymer binder/plasticizer as the variable factor. Apart from applications, this monograph explores the principles behind energetic polymers, while discussing the synthetic routes and energetic characteristics of individual family of energetic polymers. Furthermore, a number of case studies illustrate the role of energetic polyerms on enhancing the performance of formulations as compared to their inert counterparts. The emphasis is on safety throughout, with practical guidance on how to safely handle and formulate energetic polymer based formulations. With the advent of a new generation of energetic polymers, this book is relevant to industry and defense organizations as well as for academic research.
Pharmaceutical Excipients CRC Press
This book contains papers presented at the 2nd International Conference on Environmental and Economic Impacts on Sustainable Development incorporating Environmental Economics, Toxicology and Brownfields. Following the success of the first meeting held in the New Forest, home of the Wessex Institute of Technology, in 2012, it considers the pressing issues related to environmental impacts in order to provide complete solutions. The included papers discuss how to assess the impact of economic constraints on the environment, considering the social aspects as well as any resulting environmental damage. The overuse of natural resources and the resulting pollution of the environment need to be better understood in financial terms. Uncontrolled development can result in damage to the environment in terms of the release of toxic substances and hazardous waste. The increasing number of new chemical compounds poses a major challenge to the environment as it is difficult in many cases to predict their effects and take appropriate decisions. Their economic impact can be particularly challenging. The book examines issues related to whether some forms of development are compatible with environmental protection, particularly in cases of possible serious contamination and toxicity. The demand for development land has led to the reuse of properties that have been abandoned for a variety of reasons. Many of them are brownfields, sites which have deteriorated in different ways, including by contamination. These sites are usually a burden in terms of economic losses and contribute to the detriment of the quality of life of entire neighbourhoods. Rehabilitation of local fields, particularly those that are contaminated can be an expensive undertaking and require not only technical solutions but the involvement of financial, regulatory and community stakeholders. Fundamental to this premise is the analysis of the risks involved and the development of appropriate strategies. The papers address problems of great importance discussing more constructive and progressive approaches to ensure sustainability. A major motivation for the meeting is to learn from past failures, to avoid repeating similar mistakes, while attempting to prevent emerging threats to the environmental and ecological systems. Topics covered include: Environmental policies and planning; Environmental assessments; Development issues; Sustainable cities; Economic analysis; Natural resources management; Energy and the environment; Food and the environment; Ecosystems health; Soil contamination; Brownfields rehabilitation; Water resources management; Air and water pollution; Toxicity studies; Environmental health risk; Risk analysis; Community participation; Legislation and regulations.
Pharmaceutical Dosage Forms - Tablets Springer
This book provides an overview of excipients, their functionalities in pharmaceutical dosage forms, regulation, and selection for pharmaceutical products formulation. It includes development, characterization methodology, applications, and up-to-date advances through the perspectives of excipients developers, users, and regulatory experts. Covers the sources, characterization, and harmonization of excipients: essential information for optimal excipients selection in pharmaceutical development Describes the physico-chemical properties and biological effects of excipients Discusses chemical classes, safety and toxicity, and formulation Addresses recent efforts in the standardization and harmonization of excipients
Industrial and Civil Construction 2022 Elsevier Health Sciences
To conserve resources, protect the environment, and yet formulate high performance coatings at an acceptable cost: these challenges are readily met by high solids. Such systems are the epitome of high performance and low environmental impact. They are usually the best option where solvent-borne systems would otherwise be the only choice. This book delivers comprehensive knowledge in the field of high solid systems. More especially, it provides an overview of the various classes of binders and ways of transforming them into high solid binders. It lists a broad range of options and approaches for tackling technological and environmental problems.
Issues in Food Production, Processing, and Preparation: 2013 Edition CRC Press
This book describes the latest research on producing functional particles using spray processes. The authors detail micro level elementary processes and phase boundaries, process analysis scaling and modeling, and macro level process functions and particle properties. They include numerical simulations and particulars of experiments for deriving process conditions for particle production.
Energy Research Abstracts Walter de Gruyter GmbH & Co KG
Sealing is an age-old problem that dates back to our earliest attempts to create a more comfortable living environment. Prehistoric people used natural sealants such as earth, loam, grass, and reeds to protect the interior of their homes against the weather. Today's applications extend to a myriad of uses. The Handbook of Sealant Technology provide
Handbook of Pharmaceutical Granulation Technology IGI Global
This volume features fundamental research and applications in the field of the design and application of engineering materials, predominantly within the context of mechanical engineering applications. This includes a wide range of materials engineering and technology, including metals, e.g., polymers, composites, and

ceramics. Advanced applications would include manufacturing in the new or newer materials, testing methods, multi-scale experimental and computational aspects. This book features fundamental research and applications in the design of engineering materials, predominantly within the context of mechanical engineering applications such as automobile, railway, marine, aerospace, biomedical, pressure vessel technology, and turbine technology. It covers a wide range of materials, including metals, polymers, composites, and ceramics. Advanced applications include the manufacturing of new materials, testing methods, multi-scale experimental and computational aspects. p>

High Solid Binders Vincentz Network GmbH & Co KG

In the last few years the automobile design process is required to become more responsible and responsibly related to environmental needs. Basing the automotive design not only on the appearance, the visual appearance of the vehicle needs to be thought together and deeply integrated with the power developed by the engine. The purpose of this book is to try to present the new technologies development scenario, and not to give any indication about the direction that should be given to the research in this complex and multi-disciplinary challenging field.

Process-Spray Academic Press

Metal injection molding combines the most useful characteristics of powder metallurgy and plastic injection molding to facilitate the production of small, complex-shaped metal components with outstanding mechanical properties. Handbook of Metal Injection Molding, Second Edition provides an authoritative guide to this important technology and its applications. Building upon the success of the first edition, this new edition includes the latest developments in the field and expands upon specific processing technologies. Part one discusses the fundamentals of the metal injection molding process with chapters on topics such as component design, important powder characteristics, compound manufacture, tooling design, molding optimization, debinding, and sintering. Part two provides a detailed review of quality issues, including feedstock characterisation, modeling and simulation, methods to qualify a MIM process, common defects and carbon content control. Special metal injection molding processes are the focus of part three, which provides comprehensive coverage of micro components, two material/two color structures, and porous metal techniques. Finally, part four explores metal injection molding of particular materials, and has been expanded to include super alloys and precious metals. With its distinguished editor and expert team of international contributors, the Handbook of Metal Injection Molding is an essential guide for all those involved in the high-volume manufacture of small precision parts, across a wide range of high-tech industries such as microelectronics, biomedical and aerospace engineering. - Provides an authoritative guide to metal injection molding and its applications - Discusses the fundamentals of the metal injection molding processes and covers topics such as component design, important powder characteristics, compound manufacture, tooling design, molding optimization, debinding and sintering - Comprehensively examines quality issues, such as feedstock characterization, modeling and simulation, common defects and carbon content control

Pulp and Paper Magazine of Canada John Wiley & Sons

Issues in Food Production, Processing, and Preparation: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Brewing Science. The editors have built Issues in Food Production, Processing, and Preparation: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Brewing Science in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Food Production, Processing, and Preparation: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Handbook of Metal Injection Molding Springer

Burger's Medicinal Chemistry, Drug Discovery and Development Explore the freshly updated flagship reference for medicinal chemists and pharmaceutical professionals The newly revised eighth edition of the eight-volume Burger's Medicinal Chemistry, Drug Discovery and Development is the latest installment in this celebrated series covering the entirety of the drug development and discovery process. With the addition of expert editors in each subject area, this eight-volume set adds 35 chapters to the extensive existing chapters. New additions include analyses of opioid addiction treatments, antibody and gene therapy for cancer, blood-brain barrier, HIV treatments, and industrial-academic collaboration structures. Along with the incorporation of practical material on drug hunting, the set features sections on drug discovery, drug development, cardiovascular diseases, metabolic diseases, immunology, cancer, anti-Infectives, and CNS disorders. The text continues the legacy of previous volumes in the series by providing recognized, renowned, authoritative, and comprehensive information in the area of drug discovery and development while adding cutting-edge new material on issues like the use of artificial intelligence in medicinal chemistry. Included: Volume 1: Methods in Drug Discovery, edited by Kent D. Stewart Volume 2: Discovering Lead Molecules, edited by Kent D. Stewart Volume 3: Drug Development, edited by Ramnarayan S. Randad and Michael Myers Volume 4: Cardiovascular, Endocrine, and Metabolic Diseases, edited by Scott D. Edmondson Volume 5: Pulmonary, Bone, Immunology, Vitamins, and Autocoid Therapeutic Agents, edited by Bryan H. Norman Volume 6: Cancer, edited by Barry Gold and Donna M. Huryn Volume 7: Anti-Infectives, edited by Roland E. Dolle Volume 8: CNS Disorders, edited by Richard A. Glennon Perfect for research departments in the pharmaceutical and biotechnology industries, Burger's Medicinal Chemistry, Drug Discovery and Development can be used by graduate students seeking a one-stop reference for drug development and discovery and deserves its place in the libraries of biomedical research institutes, medical, pharmaceutical, and veterinary schools.

Handbook of Sealant Technology Elsevier

Handbook of Pharmaceutical Wet Granulation: Theory and Practice in a Quality by Design Paradigm offers a single and comprehensive reference dedicated to all aspects of pharmaceutical wet granulation, taking a holistic approach by combining introductory principles with practical solutions. Chapters are written by international experts across industry, academic and regulatory settings, and cover a wide spectrum of relevant and contemporary wet granulation topics, techniques and processes. The books' focus on process analytical technology,

quality by design principles, granulation equipment, modeling, scale-up, control and real time release makes it a timely and valuable resource for all those involved in pharmaceutical wet granulation. - Discusses fundamentals of theory and current industrial practice in the field of wet granulation, including product and process design and role of material properties in wet granulation - Examines the modern evolution of wet granulation through current topics such as established and novel process analytical technologies (PATs), and product development and scale-up paradigms - Written for scientists working within the pharmaceutical industry, as well as academics, regulatory officials and equipment vendors who provide PAT tools and granulation equipment

Preparation of Catalysts III John Wiley & Sons

Discusses current topics related to the technology and utilization of oilseeds and their products, such as managing an enterprise in a market economy; political and environmental challenges of the 1990s; achieving total quality; nutrition; oilseed harvesting and oil/meal separation; processing of vegetable oils; processing vegetable protein products; oilseeds in animal feeds, etc.

Multilevel Modeling of Secure Systems in QoP-ML Elsevier

It has become a tradition that every four years, the Université Catholique de Louvain and the Katholieke Universiteit Leuven jointly organize a symposium devoted to the scientific bases for the preparation of heterogeneous catalysts. These meetings bring together researchers from academia and industry and offer a forum for discussions on the chemistry involved in the preparation of industrial heterogeneous catalysts. This volume containing the Proceedings of the 8th International Symposium on Scientific Bases for the Preparation of Heterogeneous Catalysts consists of papers summarizing most of the 139 oral communications and posters selected by the international scientific committee, composed of 27 experts in the field of catalyst preparation, holding an industrial or academia appointment.The contributions focus on the aspects of catalyst preparation. The main topics are: new approaches in catalyst preparation; advanced preparations of nanoporous and mesoporous catalysts; catalysts preparation for special performances and purposes; catalysts for environmental purposes; and molecular catalysis. Emphasis is put on the role that catalysis can play as an essential element of sustainable development.

Advanced Processing and Manufacturing Technologiesfor Structural and Multifunctional Materials VI, Volume 33, Issue 8 ASM International

Green Adhesives: Preparation, Properties and Applications deals with the fabrication methods, characterization, and applications of green adhesives. It also includes the collective properties of waterborne, bio, and wound-healing green adhesives. Exclusive attention is devoted to discussing the applications of green adhesives in biomedical coatings, food, and industrial applications.

Energetic Materials Research, Applications, and New Technologies John Wiley & Sons

Studies in Surface Science and Catalysis is one of the oldest and most cited series in the field. It offers a privileged view of the topic covering the theory, applications and engineering of all topics of catalysis, including Heterogeneous-Homogeneous, Biocatalysis and Catalysis for Polymerization. This volume provides an invaluable source of information for academics and industrialists as well as graduate students.

Injection Molding of Metals and Ceramics CRC Press

The ultimate goal of drug product development is to design a system that maximizes the therapeutic potential of the drug substance and facilitates its access to patients. Pharmaceutical Dosage Forms: Tablets, Third Edition is a comprehensive resource of the design, formulation, manufacture, and evaluation of the tablet dosage form, an

Proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements Springer Science & Business Media

Developing Solid Oral Dosage Forms: Pharmaceutical Theory and Practice, Second Edition illustrates how to develop high-quality, safe, and effective pharmaceutical products by discussing the latest techniques, tools, and scientific advances in preformulation investigation, formulation, process design, characterization, scale-up, and production operations. This book covers the essential principles of physical pharmacy, biopharmaceutics, and industrial pharmacy, and their application to the research and development process of oral dosage forms. Chapters have been added, combined, deleted, and completely revised as necessary to produce a comprehensive, well-organized, valuable reference for industry professionals and academics engaged in all aspects of the development process. New and important topics include spray drying, amorphous solid dispersion using hot-melt extrusion, modeling and simulation, bioequivalence of complex modified-released dosage forms, biowaivers, and much more. - Written and edited by an international team of leading experts with experience and knowledge across industry, academia, and regulatory settings - Includes new chapters covering the pharmaceutical applications of surface phenomenon, predictive biopharmaceutics and pharmacokinetics, the development of formulations for drug discovery support, and much more - Presents new case studies throughout, and a section completely devoted to regulatory aspects, including global product regulation and international perspectives

Materials Design and Applications John Wiley & Sons

This book had its origins in a meeting between two (relatively) young particle technology researchers on Rehobeth Beach in Delaware in 1992 near the holiday house of Reg Davies (then Director of the Particle Science and Technology Research Center in Dupont). As we played in the sand, we shared an excitement for developments in particle technology, especially particle characterization, that would lead operations such as granulation to be placed on a sound scientific and engineering footing. The immediate outcome from this interaction was the development of new industry short courses in granulation and related topics which we taught together both in Australia and North America. This book follows closely the structure and approaches developed in these courses, particularly the emphasis on particle design in granulation, where the impact of both formulation properties and process variables on product attributes needs to be understood and quantified. The book has been a long time in the making. We have been actively preparing the book for at least five years. Although the chapters have relatively good bibliographies, this book is not a review of the field. Rather it is an attempt by the authors to present a comprehensive engineering approach to granulator design, scale up and operation. It is exciting for us to see the explosion of research interest around the world in this area in the last five to seven years. Some of the most recent work will have to find its way into the second edition.

Energetic Polymers WIT Press

Introducing the Quality of Protection Modeling Language (QoP-ML), this book provides for the abstraction of security systems

while maintaining emphasis on the details of quality protection . It delineates the steps used in cryptographic protocol and introduces a multilevel protocol analysis that expands current understanding. Every operation defined by QoP-ML is described within parameters of security metrics, therefore evaluating the impact of the operation on the entire system's security.