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2022-12-13

EUGENE MILES

*Energetic Materials Research, Applications, and New
Technologies* CRC Press

The 6th International Symposium on Advanced Processing and Manufacturing Technologies for Structural and Multifunctional Materials and Systems was held in January 2012 during the 36th International Conference and Exposition on Advanced Ceramics and Composites. This symposium examined progress resulting from the research and development of advanced processing and manufacturing technologies for a wide variety of non-oxide and oxide-based structural ceramics, particulate and fiber-reinforced composites, and multifunctional materials. This issue features seventeen of those papers, representing some of the most important developments in processing and manufacturing technologies.

Continuous Pharmaceutical Processing John Wiley & Sons

The Deepwater Horizon oil spill in April 2010 has shown us that increasing risks and costs have to be accepted to satisfy the increasing demand of material and energy resources from a worldwide perspective. Increasing the recovery of raw materials is one possibility, but another one is increasing efficiency in processing and production. Therefore, the development and improvement of processing technologies is a crucial factor for economic progression. This book contains discussions from the 1st International Conference on Processing Technologies for the Forest and Biobased Products Industries, held in October 2010 at Salzburg University of Applied Sciences Kuchl/Austria. The conference provided a forum for discussions among researchers, producers, and consumers of forest and biobased products and acted as a catalyst for new research on process technologies, on quality control and process improvement, and on new concepts for use by technical managers, operations managers, and business managers. The book presents an overview of new

developments in processing technologies in the forest and biobased products industries. (Series: Austria: Forschung und Wissenschaft - Technik)

Theory and Practice in a Quality by Design Paradigm John Wiley & Sons

The textbook addresses the lifecycle concepts (Stage 1, 2, 3) of Process Validation. Regulatory bodies such as US FDA, EMEA, WHO, PIC/S have adopted the ICH lifecycle approach. Organizations have an opportunity to harmonize and align PV activities for all regulated markets. The concepts discussed provides a direction on how to approach solid dose manufacturing process validation for regulatory compliance. Solid Oral Dose Process Validation, Lifecycle Approach: Application, Volume Two and the companion Volume One, Solid Dose Process Validation, The Basics, also available as a set, provide directions and solutions for the pharmaceutical industry. The topics and chapters give a systematic understanding for the application of lifecycle concepts in solid dose pharmaceutical manufacturing. Since solid dose formulations encompass majority of the pharmaceutical preparations, it is essential information for pharmaceutical professionals who use the process validation lifecycle approach. This set is published as a comprehensive solution for solid dose process validation.

Directory of Solvents Binder and Polymer Assisted Powder Processing

Binder and Polymer Assisted Powder Processing ASM International
Solid Oral Dose Process Validation, Volume Two LIT Verlag
Münster

In the last decade, there has been an influx in the development

of new technologies for deep space exploration. Countries all around the world are investing in resources to create advanced energetic materials and propulsion systems for their aerospace initiatives. Energetic Materials Research, Applications, and New Technologies is an essential reference source of the latest research in aerospace engineering and its application in space exploration. Featuring comprehensive coverage across a range of related topics, such as molecular dynamics, rocket engine models, propellants and explosives, and quantum chemistry calculations, this book is an ideal reference source for academicians, researchers, advanced-level students, and technology developers seeking innovative research in aerospace engineering.

Properties, Functionality, and Applications in Research and Industry Springer Science & Business Media

Boron-Based Fuel-Rich Solid Rocket Propellant Technology is a professional book that systematically introduces the latest research progress for boron-based fuel-rich solid propellants. It covers surface modifications, coating and agglomerating techniques, granulation, and characterization of amorphous boron powders, and its application to fuel-rich solid rocket propellants. Technologies for controlling the processing methods and combustion performance of fuel-rich propellants are examined, and the book concludes with a summary of the research progress in boron-based fuel-rich solid propellants and a look forward to the foreseeable development trends of military applications.

Flat-Panel Display Technologies CRC Press

Agrochemical products and adjuvants are of vital importance in

agriculture, to protect food and fibre crops from weeds, insect pests and diseases, in order to feed and clothe the growing world population. In recent years there have been increasing pressures to produce agrochemical formulations which have a lower environmental impact and are safer in use. Enormous changes have taken place in the chemistry and technology of agrochemicals over the last twenty years or so and this book provides a timely review of the most important area of technology in the development of new products. This book covers issues around international product quality and safety standards and describes the current and likely future trends which will carry the industry forward into the next millennium. It brings together well known international experts with many years of practical experience from agrochemical companies, consultancies, academic institutions and regulatory bodies. Chemists and technologists involved in developing new or improved agrochemical formulations will find this book an essential reference in the course of their work. The book will also be of interest to those working in research and development departments of raw material suppliers, as a concise review of this important field.

Boron-Based Fuel-Rich Propellant Springer Nature

Eight papers selected from a September 1997 symposium at the University of York, England, do not comprise a comprehensive review of water-based additives, but highlight significant recent developments in a number of important additive types. Among the topics are legislative initiatives to reduce emissions of volatile organic compounds, current technology and future developments in thickeners for waterbased systems, specialty additives for the

rheological control of waterborne systems, defoaming agents, coalescing solvents, the application of biocides, a novel dispersant for waterborne resin-free pigment concentrates, and recovering pigments and additives from waste paper coating formulations. The contributors are from British and German chemical companies. Annotation copyrighted by Book News, Inc., Portland, OR

Synthesis, Characterization, and Application LAP Lambert Academic Publishing

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.

Journal of the Association of Asphalt Paving Technologists Elsevier

This book provides a comprehensive overview of the steps involved in the ceramic injection molding process. It provides the reader with a convenient and authoritative source of information and guidance on the use of materials, equipment and testing procedures to produce satisfactory ceramic products.

IGI Global

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.

Pharmaceutical Excipients Springer Science & Business Media

Focusing on scientific and practical aspects of process scale-up, this resource details the theory and practice of transferring pharmaceutical processes from laboratory scale to the pilot plant and production scale. It covers parenteral and nonparenteral liquids and semi-solids, products derived from biotechnology, dry blending and powder handling, granulation and drying, fluid bed

applications, compaction and tableting, and film coating and regulatory requirements for scale-up and postapproval changes. Drawing on the experience of twenty contributing researchers, the book employs dimensional analysis as a unified scientific approach to quantify similar processes on different scales.

The Design and Manufacture of Medicines Springer Nature

This annual serial contains 24 research reports on the latest advances in asphalt technology, including pavement rehabilitation, recycling agents, and asphalt mixtures.

Assessments investigate the long-term behavior of asphalt and the effects of age and fatigue. A special feature of this volume is a presentation on pavement preservation.

Oral Lipid-Based Formulations CRC Press

This volume, Fluidization, Solids Handling, and Processing, is the first of a series of volumes on "Particle Technology". Particles are important products of chemical process industries spanning the basic and specialty chemicals, agricultural products, pharmaceuticals, paints, dyestuffs and pigments, cement, ceramics, and electronic materials. Solids handling and processing technologies are thus essential to the operation and competitiveness of these industries. Fluidization technology is employed not only in chemical production, it also is applied in coal gasification and combustion for power generation, mineral processing, food processing, soil washing and other related waste treatment, environmental remediation, and resource recovery processes. The FCC (Fluid Catalytic Cracking) technology commonly employed in the modern petroleum refineries is also based on fluidization principles.

Handbook of Metal Injection Molding Elsevier

In this era of increased pharmaceutical industry competition, success for generic drug companies is dependent on their ability to manufacture therapeutic-equivalent drug products in an economical and timely manner, while also being cognizant of patent infringement and other legal and regulatory concerns. Generic Drug Product Development: Solid Oral Chemistry and Technology of Agrochemical Formulations BoD – Books on Demand

There are unique challenges in the formulation, manufacture, analytical chemistry, and regulatory requirements of low-dose drugs. This book provides an overview of this specialized field and combines formulation, analytical, and regulatory aspects of low-dose development into a single reference book. It describes analytical methodologies like dissolution testing, solid state NMR, Raman microscopy, and LC-MS and presents manufacturing techniques such as granulation, compaction, and compression. Complete with case studies and a discussion of regulatory requirements, this is a core reference for pharmaceutical scientists, regulators, and graduate students.

16th JANNAF Combustion Meeting, Naval Postgraduate School, Monterey, California, September 10-14, 1979: Nitramine and solid rocket propellants, ramjets, and liquid bipropellants (unclassified) John Wiley & Sons

Organic solvents represent a class of compounds whose utility is central to industrial and academic chemistry. The impact of solvents in everyday products such as paints, surface coatings, adhesives, pharmaceuticals and cleaning products is enormous, and there is therefore much interest in their use. This volume is divided into two parts. Part 1 provides an authoritative review of

the science and technology of solvents and related issues. The topics covered are solvency and its measurement, flammability, health and toxicology, environmental issues, legislative information, transport, storage, recovery and disposal, and a review of solvent applications. Part 2 provides reliable, up-to-date data, based on information provided by manufacturers and suppliers and is presented as a database of over 350 solvent products, subdivided by solvent group. The data are also presented in key parameter tables, covering boiling points, melting points, evaporation information, vapor pressure, flash points, solubility parameters, auto ignition temperatures, and names and addresses of manufacturers, with trade names. In recent years there has been increased interest in health and safety, environmental issues and aspects of the legislative control of chemicals, including solvents, and the choice of a given solvent has therefore become more complex. The Directory of Solvents aims to provide in one place a broad spread of physico-chemical data, together with transport, safety, environmental and classification information provided by major European and U.S. suppliers and manufacturers of industrial organic solvents. Solid Oral Dosage Forms, Second Edition Elsevier Health Sciences Granular materials are a special topic of recent research and are a milestone of science and technology. These materials are very simple: they are large conglomerations of discrete macroscopic particles. Granular materials have a broad area of development, which is growing rapidly day by day. Their impact on commercial applications and academia and education is huge. The basic points of this book are the important applications and properties of granular materials. For example, special mention is made of

rheological points, shapes, and civil engineering aspects.

Brittle Fracture Index as a Tool for Tablet Binder Selection

Springer Science & Business Media

Focusing on the application of physical pharmacy, drug design, and drug regulations as they relate to produce effective dosage forms for drug delivery, Integrated Pharmaceutics provides a comprehensive picture of pharmaceutical product design, describing the science and art behind the concepts of dosage form development. Combining physical pharmacy, product design, and regulatory affairs issues in a single book, the authors address topics governing drug regulations of United States, European, and Japanese agencies and detail new regulatory guidelines, including quality by design, design space analysis, and blend sample uniformity.

Energetic Nanomaterials William Andrew

A series of plastic-bonded explosives (PBX) has been formulated with more binder than is normally contained in high-energy formulations. Adding a relatively small amount of binder to a material such as PBX 9501 (95/2.5/1.25/1.25 wt % HMX/Estane/BDNPA/BDNPF (the BDNPA and BDNPF form a eutectic that is frequently called simply the eutectic)) was found to decrease the shock sensitivity while not decreasing the energy of the explosive. The best compromise for a PBX 9501-type material contains about 92 wt % HMX. Adding additional binder does not continue to decrease the gap sensitivity of the formulation; however, the energy of the PBX decreases as expected. The higher-binder formulations are of potential use because of the possibility of formulating a PBX with energy similar to TATB formulations, such as PBX 9502 (95/5 wt % TATB/Kel-F 800), and with a higher strain to failure. 2 refs., 4 figs., 1 tab.