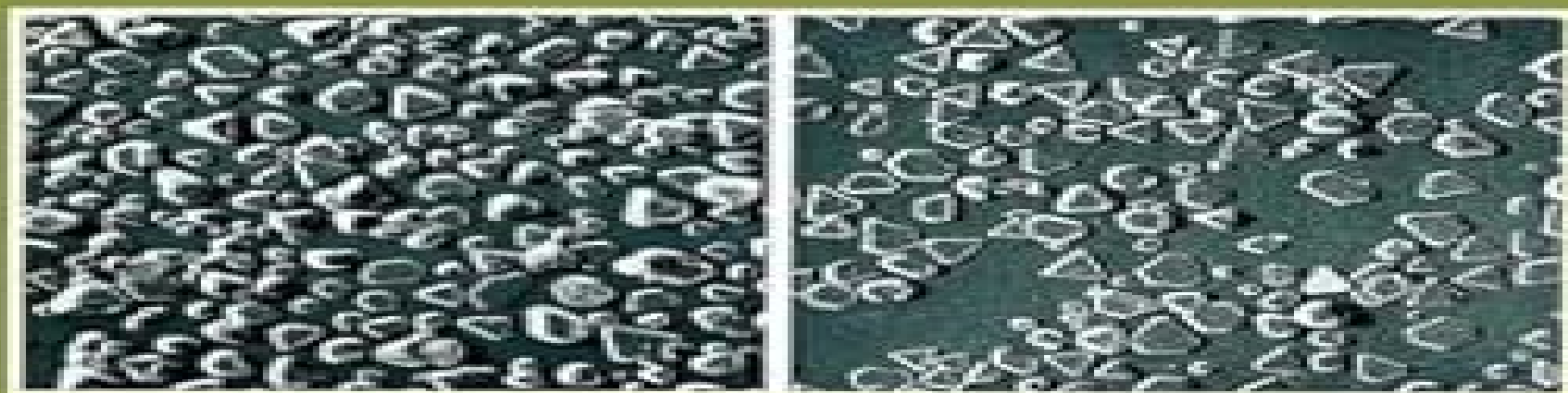


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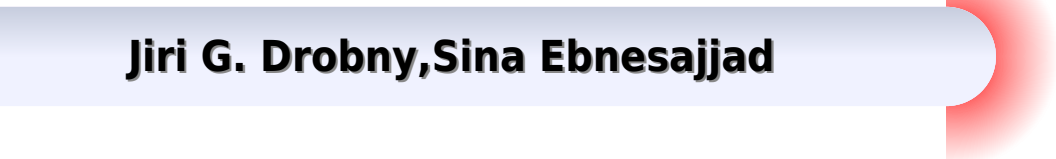
TECHNOLOGICAL APPLICATIONS OF DISPERSIONS



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Technological Applications Of Dispersions

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technology The deep dehydration of the hydrotreated kerosene fraction by evaporating water into an inert gas a nitrogen blanket was developed The product was additionally protected against the aging processes The influence of pyrolysis oil a waste product of the pyrolysis process on the physical structure of crude oil was investigated The results of the laboratory tests were verified in industrial trials in the AVD plant Positive test results made it possible to use pyrolysis oil on an industrial scale changing the dispersion structure and properties of crude oil as well as distillation results

Rheology of Particulate Dispersions and Composites Rajinder Pal,2006-11-22 Rheology of Particulate Dispersions and Composites provides comprehensive coverage of fundamental principles and equations that govern the rheology for particulate dispersions and two phase solid composites The rheological properties of suspensions emulsions bubbly liquids foams and other dispersions appear alongside those of solid comp

Science and Technology of Polymer Colloids Gary W. Poehlein,Ronald H. Ottewill,James W. Goodwin,2013-12-01 Science and Technology of Polymer Colloids G W Poehlein R H Ottewill J W Goodwin editors Polymer colloids more commonly known as latexes are important in the manufacture of synthetic elastomers commodity polymers surface coatings adhesive and numerous specialty products The significant growth of the commercial production of polymer latexes during the past decade has been due to a number of factors First water based systems especially paints and coatings avoid many of the environ mental problems associated with the solvent based systems Second polymer colloid products can be custom designed to meet a wide range of application requirements Third large scale emulsion polymeri zation proceeds smoothly and controllably with a wide range of monomers to produce stable polymer colloids of high molecular weight Polymer colloids are also important in functional scientific studies This importance arises from the spherical shape of the particles range of attainable particle diameters and the uniformity of their size distribution and the possibility of controlling and character izing the particle surface Polymer colloids are useful as size standards in microscopy and in instrument calibration and as carriers in antibody enzyme diagnosti tests As suspensions of uniform spherical particles they are idea experimental systems to test the series of colloidal phenomena as stability and coagulation electric kinetic or rheological proper ties and light scattering In recent years polymer colloids have received attention as models for many body molecular phenomena including the order disorder transitions and the mechanics of crystalline phases

Technology of Fluoropolymers Jiri George Drobny,2014-10-31 Since Plunkett s discovery of Teflon PTFE in 1938 many new types of fluorine containing polymers have been developed especially during last two decades The worldwide annual production capacity for fluoropolymers is estimated to be 135 000 metric tons Continuing research and development provides new and interesting products that will help adva

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Recent Progress in Solid Dispersion Technology Kohsaku Kawakami,2019-10-01

Amorphous solid dispersion ASD is a powerful formulation technology to improve oral absorption of poorly soluble drugs. Despite their being in existence for more than half a century, controlling ASD performance is still regarded as difficult because of ASD's natural non-equilibrium. However, recent significant advances in ASD knowledge and technology may enable a much broader use of ASD technology. This Special Issue, which includes 3 reviews and 6 original articles, focuses on recent progresses in ASD technology in hopes of helping to accelerate developmental studies in the pharmaceutical industry. In striving for a deep understanding of ASD non-equilibrium behavior, the Special Issue also delves into and makes progress in the theory of soft matter dynamics.

Scientific and Technical Aerospace Reports, 1991 *Technology of Fluoropolymers* Jiri G. Drobny, Sina Ebnesajjad, 2023-04-21. This third edition has been updated and expanded, providing industrial chemists, technologists, environmental scientists, and engineers with an accurate, compact, and practical source of information on fluoropolymers. Highlighting existing and new industrial, military, medical, and consumer goods applications, this edition adds more detailed information on equipment and processing conditions. It explores breakthroughs in understanding property-structure relationships, new polymerization techniques, and the chemistry underlying polymers such as melt-processable fluoroplastics. It also expands on the important properties of fluoropolymers, including heat and radiation degradation, health effects, and recycling. Features: Revised, updated, and expanded to continue to provide an accurate, compact, and practical source of information on fluoropolymers. Explores the property-structure relationships, polymerization techniques, and the chemistry underlying polymers. Fluoropolymers rank high on the specialty polymers group and, due to their unique properties, are naturally part of the solution to the industrial sustainability challenges of the twenty-first century. Describes the technology of fluoropolymers, including thermoplastic and elastomeric products. Expands upon the important characteristics of fluoropolymers and their recycling.

Surfactants in Polymers, Coatings, Inks, and Adhesives David R. Karsa, 2020-01-16. Surface-active agents are used as process aids in the production of polymers as additives to impart or modify polymer properties and in the formulation and further processing of polymeric systems for a variety of applications. In all these uses, the surfactants are used as effect chemicals to impart specific performance characteristics or properties to the base polymer or to enhance its performance when formulated for a specific end use. This volume focuses on those surfactant areas incorporating the greatest number of supplier and user companies. Authors have been selected from leading industrial and academic laboratories around the world. It provides an introduction to the underlying chemistry and technology in these industrial areas and, at the same time, highlights important recent developments. *Surfactants in Polymers, Coatings, Inks, and Adhesives* is a book for surfactant researchers and for manufacturers and users of surfactants. In particular, surfactant chemists, analytical chemists, environmental chemists, users of surfactant formulations in the fields of specialty chemicals, polymers, and detergents, and health and safety personnel.

Analysis of Surfactants, Second Edition Thomas M. Schmitt, 2001-01-23. In the tradition of the popular first edition, *Analysis of Surfactants, Second Edition* offers a comprehensive

and practical account of analysis methods for determining and understanding commercially important surfactants individually and in compounds Combining a complete review of the literature with a variety of evaluation procedures and the specifications for commercial products this useful reference explores the key stages and latest developments for surfactant applications This edition has been thoroughly expanded and features new sections on capillary electrophoresis ether carboxylates and ester quats It is also more globally accessible with foreign language citations and SI units Containing over 2400 references drawings tables and equations Analysis of Surfactants Second Edition is an recommended reference for physical surface colloid and oil chemists analytical research and quality assurance chemists working in the soap and detergent pharmaceuticals and cosmetic industries regulatory and food scientists and upper level undergraduate and graduate students in these disciplines *Interfacial Electrokinetics and Electrophoresis* Angel V. Delgado, 2001-12-04 Interfacial Electtrockinetics and Electrophoresis presents theoretical models and experimental procedures for the analysis of electrokinetic phenomena It discusses the physics and chemistry of solid liquid liquid liquid and gas liquid interfaces and offers applications for the printing environmental pharmaceutical and biomedical industries Interfacial Dynamics Nikola Kallay, 2000-01-03 An examination of the theoretical foundations of the kinetics and thermodynamics of solid liquid interfaces as well as state of the art industrial applications this book presents information on surface and colloidal chemical processes and evaluates vital analytical tools such as atomic force microscopy surface force apparatus measurements and p

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