



Particle Technology and Surface Phenomena in Minerals and Petroleum

Edited by
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and G. D. Sharma

Particle Technology And Surface Phenomena In Minerals And Petroleum

Mahendra K. Sharma, Teh Fu Yen



Particle Technology And Surface Phenomena In Minerals And Petroleum:

Particle Technology and Surface Phenomena in Minerals and Petroleum G.D. Sharma, Mahendra K. Sharma, 2013-06-29
The current state of the art of several aspects of minerals and petroleum is presented in this volume. It documents the proceedings of the International Symposium on Particle Technology and Surface Phenomena in Minerals and Petroleum sponsored by the Fine Particle Society (FPS). This meeting was held in San Diego, California, August 21-25, 1990. The symposium upon which this volume is based was organized in five sessions emphasizing various basic and applied aspects of research on minerals and petroleum technology. Major topics discussed involve surface phenomena in minerals, mineral flotation, characterization of asphaltenes, theoretical aspects of reservoir simulation, porosity, permeability, residual water saturation, hydrocarbon and gas potential in north slope Alaska, polymer alkaline flooding, surfactant flooding, and foam flooding for enhanced oil recovery. This edition includes eighteen selected papers presented in the symposium. These papers are divided in four broad categories: 1. Asphaltene Aggregation and Characterization; 2. Theoretical Aspects and Reservoir Characterization; 3. Colloidal Dispersions in Minerals, Petroleum; and 4. Surface Phenomena and Petroleum Recovery. Several mineral and oil recovery processes using various chemicals with special reference to surface phenomena and particle technology are described in these sections. *Particle Technology and Surface Phenomena in Minerals and Petroleum, Proceedings of the Fine Particle Society Symposium on Particle Technology and Surface Phenomena in Minerals and Petroleum held in San Diego, CA, August 21 - 25 1991* Sharma MK Ed, 1991

Asphaltenes and Asphalts, 1 G.V. Chilingarian, T.F. Yen, 1994-09-08. This is the first volume of a two-volume set of critical reviews of many aspects of both asphaltenes and asphalts and their interrelationship. Asphaltene is invariably present in asphalt or bitumen and other fossil fuel derived liquids such as coal tar, coal liquefaction products, pyrolyzed shale oil from oil shales, source rock extracts, and numerous naturally occurring bituminous substances. The latter include asphaltites, asphaltoids, waxes, and carbonaceous deposits containing a composition of petroleum and coal. The contents cover not only the basic science of asphaltene but also deal with the applications and technology such as upstreams production recovery and downstreams refining, upgrading of petroleum, and the paving technology and formulation preparation. The main features of the book are: it provides an up-to-date in-depth review of every aspect of asphaltenes and asphalts; it spans five decades of research and technology of heavy fractions of petroleum; it presents a global view of asphaltene related to exploration, production, refining, and upgrading. The book will be welcomed as a valuable reference source for petroleum companies, research institutes, refineries, universities, and also by individuals dealing with the production, origin, formation, engineering, conversion, and catalysis of heavy oil, tar sands, and other bituminous materials.

Current Awareness in Particle Technology, 1996 *Surfactants* Laurier Lincoln Schramm, Laurier L. Schramm, 2000-03-23. This 2000 book provides an introduction to the nature, occurrence, physical properties, propagation, and uses of surfactants in the petroleum industry.

Foam Engineering Paul Stevenson, 2012-01-03

Containing contributions from leading academic and industrial researchers this book provides a much needed update of foam science research The first section of the book presents an accessible summary of the theory and fundamentals of foams This includes chapters on morphology drainage Ostwald ripening coalescence rheology and pneumatic foams The second section demonstrates how this theory is used in a wide range of industrial applications including foam fractionation froth flotation and foam mitigation It includes chapters on suprafroths flotation of oil sands foams in enhancing petroleum recovery Gas liquid Mass Transfer in foam foams in glass manufacturing fire fighting foam technology and consumer product foams Key features Foam fractionation is an exciting and emerging technology starting to gain significant attention Discusses a vital topic for many industries especially mineral processing petroleum engineering bioengineering consumer products and food sector Links foam science theory to industrial applications making it accessible to an engineering science audience Summarizes the latest developments in this rapidly progressing area of research Contains contributions from leading international researchers from academia and industry

Emulsions, Foams, and Suspensions Laurier L.

Schramm,2006-05-12 Until now colloid science books have either been theoretical or focused on specific types of dispersion or on specific applications This then is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied Overall the book shows how to approach making emulsions foams and suspensions with different useful properties how to propagate them and how to prevent their formation or destabilize them if necessary The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields

Economically and Environmentally Sustainable Enhanced Oil Recovery M. R. Islam,2020-03-17

There have been many books on the topic of Enhanced Oil Recovery EOR over the last 100 years They all however focus on how to recover more oil faster taking a rather myopic approach The solutions presented all work fantastically in theory and even in the laboratory but each fails to produce results in the field with long term success The petroleum industry is almost resigned

to the belief that for an EOR technique to be successful it must be propped up with public funds or must compromise environmental integrity. In line with modern engineering practices, previous books discuss how existing technologies can be tweaked to accommodate for any shortcomings that just came to light. This book is unlike any other book on the topic of recovery in particular and engineering in general. This groundbreaking volume is a continuation of the author's and his research group's work that started publishing on the subject of global sustainability involving energy and the environment dating back to early 2000s. Starting with a paradigm shift in engineering that involves a long term focus rather than looking for short term solutions, the methods and theories presented here delve into applying green engineering and zero waste principles to EOR. Historically, EOR has received mixed success mainly because innovations in these disciplines relied heavily on processed materials which are both uneconomical and toxic to the environment. This book explains how engineers missed entirely the causes of unsustainability in these technologies due to the prevalence of many myths that are embedded in modern engineering. Once these myths are deconstructed, the appropriate technologies emerge and the merits of them both in terms of economic and environmental benefits become clear. The book reveals how previous practices in EOR can be replaced with their sustainable versions while saving in material costs. A number of innovative technologies are introduced that can render well known technologies such as steam flood, in situ combustion, chemical flooding, and microbial EOR environmentally sustainable and economically attractive. A triple dividend is received once these technologies are applied in otherwise marginal reservoirs, unconventional plays, and even abandoned formations. The overall reserve which reflects recoverable oil with new technologies goes up drastically. Further benefits are drawn when processes such as value addition of waste material is performed. Overall, this book shows how EOR can be rendered green while increasing the profitability. This is in stark contrast to the past practices that considered environmental integrity as a drain on profitability. This book proves that a paradigm shift can turn a technological disaster into a technological marvel.

Emulsions, Foams, Suspensions, and Aerosols Laurier L. Schramm, 2014-08-12. This is the first book to provide an integrated introduction to the nature, formation, and occurrence, stability, propagation, and uses of the most common types of colloidal dispersion in the process-related industries. The primary focus is on the applications of the principles, paying attention to practical processes and problems. This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries. Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type. Presented for each major physical property class followed by separate treatments of features unique to emulsions, foams, or suspensions. The first half of the book introduces the fundamental principles, introducing readers to suspension formation and stability, characterization, and flow properties, emphasizing practical aspects throughout. The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied. The author assumes no prior knowledge of

colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields

Asphaltene Particles in Fossil Fuel

Exploration, Recovery, Refining, and Production Processes Mahendra K. Sharma, Teh Fu Yen, 2012-12-06

THE CURRENT STATE OF THE ART of several aspects of asphaltene is presented in this volume It documents the proceedings of the International Symposium on Asphaltene Particles in Fossil Fuel Exploration Recovery Refining and Production Processes sponsored by the Fine particle Society FPS This meeting was held in Las Vegas Nevada July 13 17 1992 The symposium upon which this volume is based was organized in four sessions emphasizing various basic and applied aspects of research on asphaltene technology Major topics discussed involve surface phenomena of asphaltene processed and unprocessed bitumen asphaltene effect on natural and accelerated ageing of bitumens asphaltene conversion theoretical aspects of asphaltenes and interactions of asphaltene colloids in organic solvents This edition includes eighteen selected papers presented at the symposium These papers are divided in four broad categories 1 Bitumen and Coal Derived Asphaltenes 2 Asphalt and Asphaltene conversion 3 Surface and Colloidal Aspects of Asphaltenes and 4 Thermodynamic and Molecular Aspects of Asphaltenes

Finely Dispersed Particles Aleksandar M. Spasic, Jyh-Ping Hsu, 2005-10-14 Over the last decade the biggest advances in physical chemistry have come from thinking smaller The leading edge in research pushes closer to the atomic frontier with every passing year Collecting the latest developments in the science and engineering of finely dispersed particles and related systems Finely Dispersed Particles Micro Nano a *Abstracts of Papers for Symposia*, 1990

Journal of Petroleum Technology, 1990 Index of Conference Proceedings, 1996 **American Book Publishing Record**, 1992 **Energy Review**, 1992 *Annual Reports on the Progress of Chemistry*, 2003 Proceedings : Western Regional Meeting Society of Petroleum Engineers (U.S.) Western Regional Meeting, 1993 *Luma*, 1996

Reagents in Mineral Technology P. Somasundaran, 2018-04-27 Reagents in Mineral Technology provides comprehensive coverage of both basic as well as applied aspects of reagents utilized in the minerals industry This outstanding single source reference opens with an explicit account of flotation fundamentals including coverage of wetting phenomena mineral water interfacial phenomena flotation chemistry and flocculation and dispersion of mineral suspensions It then discusses flotation of sulfide and nonsulfide minerals with attention to formation of lithiolates formation of metal thiol compounds application of fatty acids sulfosuccinic acids amines and other collectors Reagents in Mineral Technology also reviews adsorption of surfactants on minerals details adsorption of polymers and considers the chemistry and application of chelation agents in minerals separations Additional chapters consider grinding aids frothers inorganic and polymeric depressants dewatering and filtering aids analytical techniques and much more Unique in its depth of coverage Reagents in Mineral Technology will prove an invaluable reference for mineral engineers and processors analytical surface colloid and physical chemists petroleum

petrochemical metallurgical and mining engineers and for use in advanced undergraduate and graduate level courses in these and related fields

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