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EXPLORING OUR COMPREHENSIVE COLLECTION INCLUDING ACULYN 38 RHEOLOGY MODIFIER DOW CHEMICAL COMPANY

A Group-Contribution Method Databook of Rheological Additives

The main physicochemical aspects of foam and foam films such as preparation, structure, properties, are considered, giving a special emphasis on foam stability. It is shown that the foam and foam films are an efficient object in the study of various surface phenomena and in establishing regularities common for different interfaces, in particular, water/oil interface. The techniques and results on foam films have an independent meaning and involve the latest achievement in this field, with a focus on authors' results. The book has an expressed monographic character. It reveals joint ideas, i.e. the quantitative approach in treating foams is based on foam film behaviour and the techniques for controlling the foam liquid content, developed by the authors. A major contribution represents the independent consideration of formation and stability of foam films in theoretical and experimental aspects. No monograph published so far reveals these topics in the mentioned manner. Data and information about foams, physicochemical characterization of surfactants, phospholipids and polymers can also be found. Furthermore, the book provides information about: techniques involved in the study of foam films and foam structure and properties; foam drainage; processes of destruction in gravitational and centrifugal fields; reasons for stability of films and their role in the processes running in the foam; mechanical, rheological, optical, thermophysical, electrical properties; foam destruction upon addition of antifoams (mechanism of destruction, techniques, application); scientific principles of controlling foam properties and their application in foam separation and concentration; enhanced oil recovery; thermodynamic and non-equilibrium properties of foam films, stabilized by surfactants, phospholipids and polymers; techniques for the study of surface forces; formation and stability of foam films; black films, including bilayers; new theories of stability of amphiphile bilayer; experiments involved in this stability; application in biology and medicine.

[Tablets](#) Elsevier

Principles of Polymer Science and Technology in Cosmetics and Personal Care

Structure and Dynamics John Wiley & Sons

Thickening and gelling agents are invaluable for providing high quality foods with consistent properties, shelf stability and good consumer appeal and acceptance. Modern lifestyles and consumer demands are expected to increase the requirements for these products. Traditionally, starch and gelatin have been used to provide the desired textural properties in foods. Large-scale processing technology places greater demands on the thickeners and gelling agents employed. Modified starches and specific qualities of gelatin are required, together with exudate and seed gums, seaweed extracts and, most recently, microbial polysaccharides, to improve product mouthfeel properties, handling, and stability characteristics. These hydrocolloids have been established as valuable food additives as a result of extensive practical experience with different products. Nevertheless, the last few years have produced much additional research data from sophisticated new analytical methods. Information on the fine structure of these complex molecules has given a tremendous insight into the three-dimensional conformation of hydro colloids and their behaviour in solution. Critical components within the biopolymer have been identified which provide particular thickening, suspending, stabilising, emulsifying and gelling properties. Contributions for this book have been provided by senior development managers and scientists from the major hydrocolloid suppliers in the US and Europe. The wealth of practical experience within this industry, together with chemical, structural and functional data, has been collated to provide an authoritative and balanced view of the commercially significant thickening and gelling agents in major existing and potential food applications.

[Performance Through Association](#) John Wiley & Sons

Oil field chemicals are gaining increasing importance, as the resources of crude oil are decreasing. An increasing demand of more sophisticated methods in the exploitation of the natural resources emerges for this reason. This book reviews the progress in the area of oil field chemicals and additives of the last decade from a rather chemical view. The material presented is a compilation from the literature by screening critically approximately 20,000 references. The text is ordered according to applications, just in the way how the jobs are emerging in practice. It starts with drilling, goes to productions and ends with oil spill. Several chemicals are used in multiple disciplines, and to those separate chapters are devoted. Two index registers are available, an index of chemical substances and a general index. * Gives an introduction to the chemically orientated

petroleum engineer. * Provides the petroleum engineer involved with research and development with a quick reference tool. * Covers interdisciplinary matter, i.e. connects petroleum recovery and handling with chemical aspects.

CRC Press

With the recent advent of commercial ceramic membranes, inorganic membranes are receiving much attention as unique separators and reactors due to their excellent thermal and chemical stabilities. This volume provides an extensive and integrated survey of the science and technology of inorganic membranes. Various methods for making dense metal and solid electrolyte membranes and porous inorganic membranes with tortuous and nearly straight pores are provided. These inorganic membranes, ranging from ceramics to metals to inorganic polymers, can be characterized by many techniques indicative of their separation performance under idealized as well as application conditions. In addition to many commercial liquid-phase applications, inorganic membranes have been used industrially for gas diffusion and particle filtration and demonstrated for the important high-temperature gas separation and membrane reactor applications. Approximately half of the book is devoted to the subject of inorganic membrane reactors. Useful data in many tables and figures and extensive literature and patent information are given throughout the book for further study. The book is a valuable reference for researchers as well as process engineers who are involved in membrane and separation technology. Chemical engineers, chemists and material scientists should also find the text a comprehensible introduction to the subject.

Theory, Experiment, Application Elsevier

Fuel cells have been recognized to be destined to form the cornerstone of energy technologies in the twenty-first century. The rapid advances in fuel cell system development have left current information available only in scattered journals and Internet sites. Advances in Fuel Cells fills the information gap between regularly scheduled journals and university level textbooks by providing in-depth coverage over a broad scope. The present volume provides informative chapters on thermodynamic performance of fuel cells, macroscopic modeling of polymer-electrolyte membranes, the prospects for phosphonated polymers as proton-exchange fuel cell membranes, polymer electrolyte membranes for direct methanol fuel cells, materials for state of the art PEM fuel cells, and their suitability for operation above 100°C, analytical modelling of direct methanol fuel cells, and methanol reforming processes. Includes contributions by leading experts working in both academic and industrial R&D Disseminates the latest research discoveries A valuable resource for senior undergraduates and graduate students, it provides in-depth coverage over a broad scope

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Issues and Choices for Society The American Oil Chemists Society

This is the first single-volume handbook with the information a researcher needs to select the best rheology modifiers for his/her project. Information on 20 different types of rheology modifiers manufactured by 26 companies worldwide is described. These range from Acrylic Polymers to Xanthan Gum. This handbook was written because, in the authors' experience, the selection of a rheology modifier for specific applications is an arduous task. It requires researching the technical literature of numerous suppliers, contacting them for current information and recommendations, and paring the list of candidates from hundreds to a few dozen. This book will enable readers to easily identify the best candidates for an application with a minimum investment of time. The book is divided into four sections. Part I reviews rheology fundamentals. Part II presents details on the products available from the 26 represented companies. Part III focuses on the selection of suitable rheology modifier candidates. Part IV is a formulary containing the contributions of the suppliers.

Make It In America, Updated Edition Elsevier

Chemistry and Technology of Silicones retains the nature of a monograph despite its expanded scope, giving the reader in condensed form not only a

wide-ranging but also a thorough review of this rapidly growing field. In contrast to some other monographs on organosilicon compounds that have appeared in the interim, the silicones occupy in this edition the central position, and the technological part of the work is entirely devoted to them. This book comprises 12 chapters, and begins with a general discussion of the chemistry and molecular structure of the silicones. The following chapters then discuss preparation of silanes with nonfunctional organic substituents; monomeric organosilicon compounds R_nSiX_{4-n} ; and organosilanes with organofunctional groups. Other chapters cover preparation of polyorganosiloxanes; the polymeric organosiloxanes; other organosilicon polymers; production of technical silicone products from polyorganosiloxanes; properties of technical products; applications of technical silicone products in various branches of industry; esters of silicic acid; and analytical methods. This book will be of interest to practitioners in the fields of molecular chemistry.

Databook of Rheological Additives John Wiley & Sons

Formulations starts with a general introduction, explaining interaction forces between particles and droplets, self-assembly systems, polymeric surfactants and nanoemulsions. The second part covers the industrial examples ranging from foams, soaps over to hair care, sunscreen and make-up products. Combines information needed by formulation chemists as well as researchers in the cosmetic industry due the increasing number of products.

[5th World Conference on Detergents](#) Elsevier

These proceedings document a conference that has become the forum not only for the dissemination of new technical developments, reviews of markets and consumer habits across the globe, but also for communicating "policy" by the major players in the industry.

Nylons Elsevier

Petroleum Engineer's Guide to Oil Field Chemicals and Fluids is a comprehensive manual that provides end users with information about oil field chemicals, such as drilling muds, corrosion and scale inhibitors, gelling agents and bacterial control. This book is an extension and update of Oil Field Chemicals published in 2003, and it presents a compilation of materials from literature and patents, arranged according to applications and the way a typical job is practiced. The text is composed of 23 chapters that cover oil field chemicals arranged according to their use. Each chapter follows a uniform template, starting with a brief overview of the chemical followed by reviews, monomers, polymerization, and fabrication. The different aspects of application, including safety and environmental impacts, for each chemical are also discussed throughout the chapters. The text also includes handy indices for trade names, acronyms and chemicals. Petroleum, production, drilling, completion, and operations engineers and managers will find this book invaluable for project management and production. Non-experts and students in petroleum engineering will also find this reference useful. Chemicals are ordered by use including drilling muds, corrosion inhibitors, and bacteria control Includes cutting edge chemicals and polymers such as water soluble polymers and viscosity control Handy index of chemical substances as well as a general chemical index

[Vapor-Liquid Equilibria Using Unifac](#) Royal Society of Chemistry

Best known for their use as bulk materials, polymers when used in small amounts as rheology modifiers can convert simple fluids to high-performance materials. Such additives have found use in paints and coatings, fuels and lubricating oils, cosmetics and personal care products, and food. This 20-chapter book presents a strong mix of industrial and academic contributions that cover rheological concepts, gels and latices, associating polymers, polymer-polymer and polymer-solvent interactions, and deformation-related orientations.

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[Formulation](#) Elsevier

Databook of Rheological Additives covers how these additives are commonly applied in a wide range of industries, providing readers with information on over 300 organic and inorganic additives. This information is presented in individual tables for each product, whether commercial or generic. Data is divided into General Information, Physical Properties, Health and Safety, Ecological Properties, Use and Performance. Sections cover their state, odor, color, bulk density, density, specific gravity, relative density, boiling point, melting point, pour point, decomposition temperature, glass transition temperature, refractive index, vapor pressure, vapor density, volume resistivity, relative permittivity, ash content, pH, viscosity, rheological behavior, and more. Other notations include updates on NFPA classification, HMIS classification, OSHA hazard class, UN Risk phrases, UN Safety phrases, UN/NA class, DOT class, ADR/RIC class, ICAO/IATA class, IMDG class, packaging group, shipping name, food approvals, autoignition temperature, self-accelerating decomposition temperature, flash point, TLV ACGIH, NIOSH and OSHA, maximum exposure concentration IDLH, animal testing oral-rat, rabbit-dermal, mouse-oral, guinea pig-dermal, rat-dermal, rat-inhalation, mouse-inhalation, ingestion and skin and eye irritation. Covers how rheological additives are commonly applied in a wide range of industries Features content divided into five groups: General Information, Physical Properties, Health and Safety, Ecological Properties, and Use and Performance Includes information on name/common name, chemical structure, state, odor, color, boiling/melting points, rheological behavior, OSHA hazard class, ingestion, skin/eye irritation, first aid, carcinogenicity, biodegradation probability, and more

The Case for Re-Inventing the Economy John Wiley & Sons

The case for revolutionizing the U.S. economy, from a leading CEO America used to define itself by the things we built. Wedesigned and produced the world's most important innovations, and in doing so, created a vibrant manufacturing sector that established the middle class. We manufactured our way to the top and became the undisputed economic leader of the world. But over the last several decades, and especially in the last ten years, the sector that was America's great pride has eroded, costing us millions of jobs and putting our long-term prosperity at risk. Now, as we struggle to recover from the worst recession in generations, our only chance to turn things around is to revive the American manufacturing sector—and to revolutionize it. In *Make It in America: The Case for Reinventing the Economy*, Andrew Liveris—Chairman and CEO of The Dow Chemical Company—offers a thoughtful and passionate argument that America's future economic growth and prosperity depends on the strength of its manufacturing sector. The book explains how a manufacturing sector creates economic value on a scale unmatched by any other, and how central the sector is to creating jobs both inside and outside the factory. Explores how other nations are building their manufacturing sectors to stay competitive in the global economy, and describes how America has failed to keep up. Provides an aggressive, practical, and comprehensive agenda that will put the U.S. back on track to lead the world. It's time to stop accepting as inevitable the shuttering of factories and staggering job losses that have come to define manufacturing. It's time to acknowledge the cost of inaction. There is no better company to make the case for reviving U.S. manufacturing than The Dow Chemical Company, one of the world's largest manufacturers and most global corporations. And there's no better book to show why it needs to be done and how to do it than *Make It in America*.

Foams and Emulsions John Wiley & Sons

This book focuses on common types of polymers belonging to the class of water soluble polymers. It covers a wide range of applications: food, cosmetic, medical, lithography and ink jet printing, agricultural, wastewater cleaning, and oilfield. The text is arranged according to the chemical constitution of polymers and reviews the developments that have taken place in the last decade. Each chapter follows the same template. A brief introduction to the polymer type is given and previous monographs and reviews dealing with the topic are listed for quick reference. The text continues with monomers, polymerization, fabrication techniques, properties, applications, as well as safety issues. Providing a rather encyclopedic approach to water soluble polymers, the *Handbook of Engineering and Specialty Thermoplastics: Presents a listing of suppliers and commercial grades. Reviews current patent literature, essential for the engineer developing new products. Contains an extensive tradenames index with information that is fairly unique. Concludes with an index of acronyms and a general index.* The *Handbook of Engineering and Specialty Thermoplastics: Water Soluble Polymers* provides a comprehensive reference for chemical engineers and offers advanced students a textbook for use in courses on chemically biased plastics technology and polymer science.

Hydrogels in Medicine and Pharmacy Amer Chemical Society

TRB's Transportation Research Record: Journal of the Transportation Research Board, No. 2106 includes 16 papers that explore sketch models for air

transport demand estimation, supporting aircraft manufacturers to systematically formulate and implement sustainable development strategies, mixed logit analysis of international airline choice, conceptual framework for collecting online airline pricing data, quantifying the relationship between airline load factors and flight cancellation trends, and a modeling framework for airline competition in the U.S. domestic network. This issue of the TRR also examines depeaking strategies for improving airport ground operations productivity at midsize hubs, a modeling framework for airport terminal planning and performance evaluation, route choice control of automated baggage handling systems, value of flight cancellation and cancellation decision modeling, resource allocation in flow-constrained areas, prioritizing aircraft operations at congested airports, design of ground delay programs, considering hydroplaning in runway geometric design, characterizing the distribution of safety occurrences in aviation, and analysis of the workload of training captains.

Foam and Foam Films CRC Press

Facilitating the development of important processes that yield increased deterative performance from smaller dosages, this work examines up-to-date and emerging process and chemical technologies used in the formulation of compact powdered detergents. It provides a survey of technological developments fundamental to powder compaction, such as the replacement of traditional phosphate builders and the introduction of insoluble zeolites as particle process aids.

Aviation 2009 Springer Science & Business Media

By-products of global biodiesel manufacturing are a modern day global fact responsible for igniting a number of year's worldwide intense research activity into human chemical ingenuity. This fully updated and revised 2nd edition depicts how practical limitations posed by glycerol chemistry are solved based on the understanding of the fundamental chemistry of glycerol and by application of catalysis science and technology. The authors report and comment on employable, practical avenues applicable to convert glycerol into value added products of mass consumption. This book is the best-selling reference book in the field. The highly anticipated 2nd Edition is essential reading for anyone interested in understanding whether biodiesel and glycerol refineries are convenient and economically sound.

REVIEW OF ACULYN 38 RHEOLOGY MODIFIER DOW CHEMICAL COMPANY

- This is a brilliant investigation of the dangerous relations when we mix politics and religion. This book is almost banned in Latin American countries. The reason: we still suffer from this problem. Please forgive my poor spelling and writing in English.
- Awesome To wait for it if you know what I'm talking about, Beatrice. LOL well as the latest version from work