

Reading free Crude oil waxes emulsions and asphaltenes (2023)

oilfield waxes and emulsions are petroleum byproducts that increase the costs of production transportation and refining by causing equipment failures plugged pipelines and decreased throughput this book is the first of its kind in explaining the physical chemical problems associated with waxes and emulsions and the new technologies for treatment of these problems natural and synthetic waxes a compilation of all relevant information for the production and use of waxes in technical applications waxes are among the oldest organic substances used by mankind before all others beeswax is known to have played a role in human history for thousands of years but over time many other wax species have been detected and exploited and prepared for different utilizations today we possess knowledge of a great variety of different types of waxes unfortunately there still is no broadly accepted definition of a wax for the relatively few wax chemists waxes are usually defined by their physico chemical properties more than by their chemical constitution waxes are not uniform but oligomeric and polymeric substances not simply describable with a chemical formula the realm of waxes encompasses fully or partly natural refined partly or fully synthetic products which can be extended by wax like products which do not fulfil all definition criteria waxes are offered in different forms like pellets granules powders or micropowders their number of technical applications runs into thousands however waxes in most cases are just adjuvants or additives and with few exceptions like candles not known to a broader public only few publications over the last decades tried to present a more comprehensive overview of their chemistry chemical composition their physical and analytical properties their applications and their sometimes astonishing history based on personal experience and expertise the authors intend to present an overview on the main classes of waxes their origin history future and potential fate economical aspects like market size and development ecological impacts and challenges and regulatory issues are also addressed waxes are indispensable products in everyday life and in industry and technology though mostly not even visible or distinguishable to experts they deserve more than the role of a poor cousin in chemistry and technology a discussion of fundamental characteristics theories and applications for liquid liquid colloidal dispersions it profiles experimental and traditional measurement techniques in a variety of emulsified systems including rheology nuclear magnetic resonance dielectric spectroscopy microcalorimetry video enhanced microscopy and conductivity emulsions and emulsion stability second edition provides comprehensive coverage of both theoretical and practical aspects of emulsions the book presents fundamental concepts and processes in emulsified systems such as flocculation coalescence stability precipitation deposition and the evolution of droplet size distribution the book proceedings of the nato advanced research workshop bergen norway june 24 25 1991 contents preface to the second edition preface to the first edition introduction abbreviations 1 natural waxes mineral waxes paraffin wax microcrystalline waxes petrolatum wax ozokerite ceresin utah wax montan wax vegetable waxes botanical origin of waxes solubility of vegetable waxes carnauba wax flower wax first wax medium wax sandy wax fat wax candelilla wax japan wax ucuhuba wax 2 manufactured and synthetic waxes fatty alcohols cetyl alcohol lanette wax technical stearyl alcohol fatty acids stearic acid palmitic acid myristic acid distilled fatty acids solubility of fatty acids polyglycols carbowaxes polyhydric alcohol fatty acid esters glyceryl stearates glycol fatty acid esters sorbitol stearates pentawaxes hydrogenated oils opalwax chlorinated naphthalenes halowax seekay wax acrawaxes acrawax b acrawax c i g waxes miscellaneous synthetic waxes commercial waxes albacer diolin flexo wax c glyco waxes stroba wax ketones amines amides and nitriles 16 hentriacontanone octadecyl hexadecyl amine octadecylamine armids octadecanamide hexadecanamide octadecane nitrile octadecane hexadecane nitrile santowaxes santowax r alcowaxes alcowax m alcowax g 3 physical properties of waxes and wax compositions increasing the viscosity of molten waxes penetration surface tension of waxes adhesiveness increasing compatibility raising the melting point of waxes raising the melting point of petrolatum effects of a wax sizing on

the moisture absorption of insulating board pliolite paraffin wax compositions specific heat of petroleum waxes melting points of binary wax mixtures solubility of waxes solubility of waxes in different solvents compatibility of paraffin waxes with other substances compatibility of mixed fatty acids compounded waxes 4 wax technology adulteration quality variations simple tests melting point specific gravity moisture and insoluble matter accurate determination of specific gravity preparation of sample determination of specific gravity at 25 25 c identification of mixed waxes schematic outline for identification separation and comparison of the properties of the wax components spermaceti beeswax carnauba wax candelilla wax montan wax paraffin wax ozokerite 5 waxes in industry dental waxes method of producing base plate wax lipsticks pharmaceutical preparations embalming preparations pyrotechnics candles wicks winding candle sizes machinery wax candles paraffin candles temperature control colors sizes and shapes standard candle melting point of wax mixtures congealing point of candles leather finishes paper finishes waterproofing kraft papers evaluation of waxes for paper board stain and flow test at 130 f softening and melting point flexibility and strength viscosity surface tension permeability degree of impregnation effect of wax on the strength of board electrolyte penetration test 6 glossary special tables and substitutes 7 wax formulary adhesives and cements agricultural and garden specialties building materials carbon paper inks and crayons cosmetics and medicinal preparations dental preparations emulsions full toc available on website theory and practice of emulsion technology covers the proceedings of the theory and practice of emulsion technology symposium held at brunel university on september 16 18 1974 this book is organized into four sessions encompassing 19 chapters the opening session deals with the emulsification process and emulsion polymerization as well as the adsorption behavior of polyelectrolyte stabilized emulsions the following session examines the rheological properties stability and fluid mechanics of emulsions this session also looks into the role of protein conformation and crude oil water interfacial properties in emulsion stability the third session highlights the preparation formation properties and application of bitumen emulsions the concluding session describes the process of spontaneous emulsification the steric emulsion stabilization the interfacial measurements of oil in water emulsions and the influence of the disperse phase on emulsion stability this book will be of value to chemists chemical and process engineers and researchers commercial waxes natural and synthetic including properties uses methods of handling and formulas for making commercial wax compositions a symposium and compilation edited by h bennett preface natural waxes and wax like materials have been used from time immemorial for candles waterproofing sealing decorative preservative and other purposes synthetic waxes and wax like materials developed in the last decade are finding increasing use and are supplanting natural waxes for many purposes since different waxes have different properties each one is used to obtain certain end results whereas certain waxes are used alone as paraffin wax in waxed papers other uses require combinations of different waxes resins etc to obtain a desired result because there is no one source of information available on the waxes used in industry the writer was asked to prepare a book on commercial waxes for the chemist engineer superintendent purchasing agent and student it is hoped that this book will be helpful to these and others who are interested in commercial waxes and wax compositions much of the data given herein is from the writer's own laboratory and has never been disclosed grateful acknowledgment is made to allan b olsen both for data supplied by him and his constructive criticism of the manuscript h bennett contents include preface iii introduction xi abbreviations xv i natural waxes 1 mineral waxes 1 paraffin wax 1 macrocrystalline waxes 60 petrolatum wax 68 ozokerite 68 ceresin 71 utah wax 71 montan wax 72 vegetable waxes 73 botanical origin of waxes 73 solubility of vegetable waxes 74 carnauba wax 74 candelilla wax 77 japan wax 79 ucuhuba wax 80 bayberry wax 80 ouricury wax 81 cocoa butter 82 fiber wax 82 cotton wax 83 flax wax 84 sugar cane wax 84 animal waxes 85 spermaceti 85 v vi table of contents chapter page i natural waxes cont insect waxes 86 beeswax 86 chinese wax 89 shellac wax 89 ii manufactured and synthetic waxes 91 fatty alcohols 91 cetyl alcohol 91 lanette wax 93 technical stearyl alcohol 94 fatty acids 94 stearic acid 94 palmitic acid 97 myristic acid 98 distilled fatty acids 99 polyglycols 101 carbowax 101 polyhydric alcohol fatty acid esters 105 glyceryl stearates 105 glycol stearates 107 sorbitol stearates 110 pentaerythritol 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wax 128 table of contents vii chapter page ii manufactured and synthetic waxes cont miscellaneous synthetic waxes cont b z wax a 129 ceraflux tech 129 diolin 129 flexo wax c 130 gelowax 130 glycowax a 131 nipocer 131 ozowax 132 rezowax a 132 rezowax b 132 stroba wax 133 ketones amines amides nitriles 133 16 hentriacontanone 133 octadecyl hexadecyl amine 135 octadecylamine 135 cd amides 136 octadecanamide hexadecanamide 139 octadecane nitrile 140 octadecane hexadecane nitrile 140 santowaxes 141 santowax osa and santowax psa 148 santowax r regular 148 iii physical properties of waxes and wax compositions 153 iv wax technology 233 commercial wax solutions 253 emulsions 261 v waxes in industry 267 dental waxes 267 lipsticks 268 explore possible new approaches for overcoming poorly soluble drugs a challenge to drug formulation work and an increasing problem many newly developed drugs are poorly soluble very often simultaneously in aqueous and in organic media emulsions and nanosuspensions for the formulation of poorly soluble drugs aims to review the possibilities limitations and future perspectives of emulsions as drug carriers considering technology from other than the pharmaceutical industry i e food industry show the production technology of nanosuspensions explain the special dissolution properties i e increased saturation solubility and increased dissolution velocity theory and cover the possible applications present the theory of high pressure homogenization and high pressure extrusion in dispersion techniques including examples of applications and size measurements in concentrated dispersions volume 4 of the encyclopedia of emulsion technology completes this unique and compact 4 volume work by extending the discussion of basic theory and applications featured in volumes 1 3 more importantly this volume presents the latest developments on new applications in emulsion technology introducing scientists and engineers to the most recent concepts the fundamental side of this book covers general aspects of stability interfacial adsorption mechanisms interfacial rheology direct measurements of surface forces and the bulk rheological properties of emulsions and self diffusion properties as measured by nmr the applications side covers the fields of food crude oil and pharmaceutical emulsions a central topic in the study of food emulsions is the role played by proteins at the water oil interface their conformations and the mechanism by which they can be replaced at the interface competitive adsorption to control the migration of radioactive and hazardous wastes currently contained underground barriers made of natural materials and man made substances are constructed atop and possibly around the contaminated area barrier technologies for environmental management provides a brief summary of the key issues that arose during the workshop on barriers for long term isolation recurring themes from the session include the importance of quality control during installation followed by periodic inspection maintenance and monitoring and documentation of installation and performance data the book includes papers by the workshop presenters pharmacognosy fundamentals applications and strategies second edition represents a comprehensive compilation of the philosophical scientific and technological aspects of contemporary pharmacognosy the book examines the impact of the advanced techniques of pharmacognosy on improving the quality safety and effectiveness of traditional medicines and how pharmacokinetics and pharmacodynamics have a crucial role to play in discerning the relationships of active metabolites to bioavailability and function at the active sites as well as the metabolism of plant constituents structured in seven parts the book covers the foundational aspects of pharmacognosy the chemistry of plant metabolites their effects other sources of metabolites crude drugs from animals basic animal anatomy and physiology technological applications and biotechnology and the current trends in research new to this edition is a chapter on plant metabolites and sars cov 2 extensive updates on existing chapters and the development of a laboratory guide to support instructors execute practical activities on the laboratory setting covers the main sources of natural bioactive substances contains practice questions and laboratory exercises at the end of every chapter to test learning and retention describes how pharmacokinetics and pharmacodynamics play a crucial role in discerning the relationships of active metabolites to bioavailability and function at active sites includes a dedicated chapter on the effect of plant metabolites on sars cov 2 surfacde phenomena adsorption at liquid liquid interfaces dilute emulsions as oilhydrosols emulsifying agents properties of emulsions theories of emulsions dual emulsions in biological investigations miscellaneous emulsions the preparation of emulsions basic principles the preparation of emulsions technical operations de emulsification physical measurements in emulsions the importance of emulsification techniques their use in the production of

nanoparticles for biomedical applications as well as application of rheological techniques for studying the interaction between the emulsion droplets is gathered in this reference work written by some of the top scientists within their respective fields this book covers such topics as emulsions nano emulsions nano dispersions and novel techniques for their investigation it also considers the fundamental approach in areas such as controlled release drug delivery and various applications of nanotechnology this collection reports on the latest research achievements in the fields of environmentally friendly ink and materials technology environmentally friendly packaging materials technology green information recording material and environmentally friendly packaging materials technology the contents are anticipated to promote academic communication between related colleges and research institutes so as to improve the research and development capabilities available for the furthering of progress in environment friendly printing and packaging volume is indexed by thomson reuters cpci s wos provides a comprehensive review of the major technologies and applications of lipids in food and nonfood uses including current and future trends discusses the nature of lipids their major sources and role in nutrition the book describes the science and technology of formulation and manufacturing of non nitroglycerine explosives with ammonium nitrate as the main ingredient based on the author s industry experience of more than thirty years it provides an unparalleled treatment of one of the commercially most important classes of explosives and therefore stimulates further research and development efforts in the field of explosives for civil applications contents part 1 compounded waxes 1 general compatibility hardness melting point penetration refractive index solubility in oil viscosity 2 paraffin wax compounds 3 ethyl cellulose and wax mixtures compounding ethyl cellulose with incompatible substances methods of preparing mixtures of waxes with ethyl cellulose 4 compositions with resins and rubber resin wax compositions compatibility of varnish resins with waxes cumarone indene resins and wax compositions methacrylate resin hot melt blends microcrystalline wax resin blends wax rubber compositions 5 commercial wax additives part 2 wax technology 6 tests and techniques the melting points of waxes odor and taste emulsions fluorescence of waxes solubility of waxes commercial wax solutions surface tension of waxes specific gravity specific heat of petroleum waxes to alter properties of paraffin wax simple tests identification of mixed waxes separation and comparison of properties detecting wax additives evaluation of waxes for paperboard determinations of properties testing for quality control opacifying waxes coloring waxes 7 industrial uses of waxes adhesives candles coatings cosmetics electrical applications inks leather goods paper products pharmaceutical preparations photomechanics plastics polishes pyrotechnics rubber textile processing abbreviations alphabetic listing of trademark products index this edited book explores the use of surfactants in upstream exploration and production e p it provides a molecular mechanistic and application based approach to the topic utilising contributions from the leading researchers in the field of organic surfactant chemistry and surfactant chemistry for upstream e p the book covers a wide range of problems in enhanced oil recovery and surfactant chemistry which have a large importance in drilling fracking hydrate inhibition and conformance it begins by discussing the fundamentals of surfactants and their synthesis it then moves on to present their applicability to a variety of situations such as gas injections shale swelling inhibition and acid stimulation this book presents research in an evolving field making it interesting to academics postgraduate students and experts within the field of oil and gas supplementary videos demonstrating various dispensing procedures can be viewed online at pharmpress com pcdvideos book jacket subsea production systems overview of subsea engineering subsea field development subsea distribution system flow assurance and system engineering subsea structure and equipment subsea umbilical risers and flowlines this handbook contains comprehensive information on more than 5000 trade names and generic chemicals and materials that are used in a broad range of formulations to prevent the contamination and decomposition of end products product degradation can be caused by exposure to oxygen ozone bacteria molds yeast mildew and fungi the industries that depend on the proper selection of preserving chemicals and materials are diverse and include plastics elastomers construction paper pulp agriculture textiles paints and coatings pharmaceutical cosmetics food beverages this handbook contains comprehensive information on a variety of preservatives available from major chemical manufacturers and can expedite the material selection process for chemists formulators and purchasing agents by providing the answers to these questions is the agent capable of inhibiting the detrimental effects of oxygen ozone

or microbes to the extent necessary is the agent s overall physical and chemical attributes compatible with the product or system being protected can the agent remain stable under storage conditions and for the application requirements is its safety in production and handling acceptable does its level of toxicity meet environmental regulations does it meet cost requirements

Crude Oil Waxes, Emulsions, and Asphaltenes 1997

oilfield waxes and emulsions are petroleum byproducts that increase the costs of production transportation and refining by causing equipment failures plugged pipelines and decreased throughput this book is the first of its kind in explaining the physical chemical problems associated with waxes and emulsions and the new technologies for treatment of these problems

Natural and Synthetic Waxes 2023-01-10

natural and synthetic waxes a compilation of all relevant information for the production and use of waxes in technical applications waxes are among the oldest organic substances used by mankind before all others beeswax is known to have played a role in human history for thousands of years but over time many other wax species have been detected and exploited and prepared for different utilizations today we possess knowledge of a great variety of different types of waxes unfortunately there still is no broadly accepted definition of a wax for the relatively few wax chemists waxes are usually defined by their physico chemical properties more than by their chemical constitution waxes are not uniform but oligomeric and polymeric substances not simply describable with a chemical formula the realm of waxes encompasses fully or partly natural refined partly or fully synthetic products which can be extended by wax like products which do not fulfil all definition criteria waxes are offered in different forms like pellets granules powders or micropowders their number of technical applications runs into thousands however waxes in most cases are just adjuvants or additives and with few exceptions like candles not known to a broader public only few publications over the last decades tried to present a more comprehensive overview of their chemistry chemical composition their physical and analytical properties their applications and their sometimes astonishing history based on personal experience and expertise the authors intend to present an overview on the main classes of waxes their origin history future and potential fate economical aspects like market size and development ecological impacts and challenges and regulatory issues are also addressed waxes are indispensable products in everyday life and in industry and technology though mostly not even visible or distinguishable to experts they deserve more than the role of a poor cousin in chemistry and technology

Wax, Floor, Water-emulsion, Slip-resistant 1977

a discussion of fundamental characteristics theories and applications for liquid liquid colloidal dispersions it profiles experimental and traditional measurement techniques in a variety of emulsified systems including rheology nuclear magnetic resonance dielectric spectroscopy microcalorimetry video enhanced microscopy and conductivity

Encyclopedic Handbook of Emulsion Technology 2001-03-16

emulsions and emulsion stability second edition provides comprehensive coverage of both theoretical and practical aspects of emulsions the book presents fundamental concepts and processes in emulsified systems such as flocculation coalescence stability precipitation deposition and the evolution of droplet size distribution the bo

Emulsions and Emulsion Stability 2005-11-21

proceedings of the nato advanced research workshop bergen norway june 24 25 1991

Wax Chemistry and Technology 1952

contents preface to the second edition preface to the first edition introduction abbreviations 1 natural waxes mineral waxes paraffin wax microcrystalline waxes petrolatum wax ozokerite ceresin utah wax montan wax vegetable waxes botanical origin of waxes solubility of vegetable waxes carnauba wax flower wax first wax medium wax sandy wax fat wax candelilla wax japan wax ucuhuba wax 2 manufactured and synthetic waxes fatty alcohols cetyl alcohol lanette wax technical stearyl alcohol fatty acids stearic acid palmitic acid myristic acid distilled fatty acids solubility of fatty acids polyglycols carbowaxes polyhydric alcohol fatty acid esters glyceryl stearates glycol fatty acid esters sorbitol stearates pentawaxes hydrogenated oils opalwax chlorinated naphthalenes halowax seekay wax acrawaxes acrawax b acrawax c i g waxes miscellaneous synthetic waxes commercial waxes albacer diolin flexo wax c glyco waxes stroba wax ketones amines amides and nitriles 16 hentriacontanone octadecyl hexadecyl amine octadecylamine armids octadecanamide hexadecanamide octadecane nitrile octadecane hexadecane nitrile santowaxes santowax r alcowaxes alcowax m alcowax g 3 physical properties of waxes and wax compositions increasing the viscosity of molten waxes penetration surface tension of waxes adhesiveness increasing compatibility raising the melting point of waxes raising the melting point of petrolatum effects of a wax sizing on the moisture absorption of insulating board pliolite paraffin wax compositions specific heat of petroleum waxes melting points of binary wax mixtures solubility of waxes solubility of waxes in different solvents compatibility of paraffin waxes with other substances compatibility of mixed fatty acids compounded waxes 4 wax technology adulteration quality variations simple tests melting point specific gravity moisture and insoluble matter accurate determination of specific gravity preparation of sample determination of specific gravity at 25 25 c identification of mixed waxes schematic outline for identification separation and comparison of the properties of the wax components spermaceti beeswax carnauba wax candelilla wax montan wax paraffin wax ozokerite 5 waxes in industry dental waxes method of producing base plate wax lipsticks pharmaceutical preparations embalming preparations pyrotechnics candles wicks winding candle sizes machinery wax candles paraffin candles temperature control colors sizes and shapes standard candle melting point of wax mixtures congealing point of candles leather finishes paper finishes waterproofing kraft papers evaluation of waxes for paper board stain and flow test at 130 f softening and melting point flexibility and strength viscosity surface tension permeability degree of impregnation effect of wax on the strength of board electrolyte penetration test 6 glossary special tables and substitutes 7 wax formulary adhesives and cements agricultural and garden specialties building materials carbon paper inks and crayons cosmetics and medicinal preparations dental preparations emulsions full toc available on website

Emulsions 2012-12-06

theory and practice of emulsion technology covers the proceedings of the theory and practice of emulsion technology symposium held at brunel university on september 16 18 1974 this book is organized into four sessions encompassing 19 chapters the opening session deals with the emulsification process and emulsion polymerization as well as the adsorption behavior of polyelectrolyte stabilized emulsions the following session examines the rheological properties stability and fluid mechanics of emulsions this session also looks into the role of protein conformation and crude oil water interfacial properties in emulsion stability the third session highlights the preparation formation

properties and application of bitumen emulsions the concluding session describes the process of spontaneous emulsification the steric emulsion stabilization the interfacial measurements of oil in water emulsions and the influence of the disperse phase on emulsion stability this book will be of value to chemists chemical and process engineers and researchers

Commercial Waxes, Second Edition 2011-10

commercial waxes natural and synthetic including properties uses methods of handling and formulas for making commercial wax compositions a symposium and compilation edited by h bennett preface natural waxes and wax like materials have been used from time immemorial for candles waterproofing sealing decorative preservative and other purposes synthetic waxes and wax like materials developed in the last decade are finding increasing use and are supplanting natural waxes for many purposes since different waxes have different properties each one is used to obtain certain end results whereas certain waxes are used alone as paraffin wax in waxed papers other uses require combinations of different waxes resins etc to obtain a desired result because there is no one source of information available on the waxes used in industry the writer was asked to prepare a book on commercial waxes for the chemist engineer superintendent purchasing agent and student it is hoped that this book will be helpful to these and others who are interested in commercial waxes and wax compositions much of the data given herein is from the writer's own laboratory and has never been disclosed grateful acknowledgment is made to allan b olsen both for data supplied by him and his constructive criticism of the manuscript h bennett contents include preface iii introduction xi abbreviations xv i natural waxes 1 mineral waxes 1 paraffin wax 1 macrocrystalline waxes 60 petrolatum wax 68 ozokerite 68 ceresin 71 utah wax 71 montan wax 72 vegetable waxes 73 botanical origin of waxes 73 solubility of vegetable waxes 74 carnauba wax 74 candelilla wax 77 japan wax 79 ucuhuba wax 80 bayberry wax 80 ouricury wax 81 cocoa butter 82 fiber wax 82 cotton wax 83 flax wax 84 sugar cane wax 84 animal waxes 85 spermaceti 85 v vi table of contents chapter page i natural waxes cont insect waxes 86 beeswax 86 chinese wax 89 shellac wax 89 ii manufactured and synthetic waxes 91 fatty alcohols 91 cetyl alcohol 91 lanette wax 93 technical stearyl alcohol 94 fatty acids 94 stearic acid 94 palmitic acid 97 myristic acid 98 distilled fatty acids 99 polyglycols 101 carbowax 101 polyhydric alcohol fatty acid esters 105 glyceryl stearates 105 glycol stearates 107 sorbitol stearates 110 pentaerythritol stearates ill pentawaxes ill hydrogenated oils ill opalwax 112 chlorinated naphthalenes 117 halowax 117 seekay wax 117 acrawaxes 119 acrawax b 120 acrawax c 121 i g waxes 123 miscellaneous synthetic waxes 127 albacer 128 adheso wax 128 table of contents vii chapter page ii manufactured and synthetic waxes cont miscellaneous synthetic waxes cont b z wax a 129 ceraflux tech 129 diolin 129 flexo wax c 130 gelowax 130 glycowax a 131 nipocer 131 ozowax 132 rezowax a 132 rezowax b 132 stroba wax 133 ketones amines amides nitriles 133 16 hentriacontanone 133 octadecyl hexadecyl amine 135 octadecylamine 135 cd amides 136 octadecanamide hexadecanamide 139 octadecane nitrile 140 octadecane hexadecane nitrile 140 santowaxes 141 santowax osa and santowax psa 148 santowax r regular 148 iii physical properties of waxes and wax compositions 153 iv wax technology 233 commercial wax solutions 253 emulsions 261 v waxes in industry 267 dental waxes 267 lipsticks 268

Wax Emulsions for Vegetables 1939

explore possible new approaches for overcoming poorly soluble drugs a challenge to drug formulation work and an increasing problem many newly developed drugs are poorly soluble very often simultaneously in aqueous and in organic media emulsions and nanosuspensions for the formulation of poorly soluble drugs aims to review the possibilities limitations and future perspectives of emulsions as drug carriers considering technology from other than the pharmaceutical industry i e food industry show the production

technology of nanosuspensions explain the special dissolution properties i e increased saturation solubility and increased dissolution velocity theory and cover the possible applications present the theory of high pressure homogenization and high pressure extrusion in dispersion techniques including examples of applications and size measurements in concentrated dispersions

A Study of a Commercial Natural Wax Emulsion 1941

volume 4 of the encyclopedia of emulsion technology completes this unique and compact 4 volume work by extending the discussion of basic theory and applications featured in volumes 1 3 more importantly this volume presents the latest developments on new applications in emulsion technology introducing scientists and engineers to the most recent concepts

Theory and Practice of Emulsion Technology 2012-12-02

the fundamental side of this book covers general aspects of stability interfacial adsorption mechanisms interfacial rheology direct measurements of surface forces and the bulk rheological properties of emulsions and self diffusion properties as measured by nmr the applications side covers the fields of food crude oil and pharmaceutical emulsions a central topic in the study of food emulsions is the role played by proteins at the water oil interface their conformations and the mechanism by which they can be replaced at the interface competitive adsorption

Commercial Waxes - Natural and Synthetic 2008-11

to control the migration of radioactive and hazardous wastes currently contained underground barriers made of natural materials and man made substances are constructed atop and possibly around the contaminated area barrier technologies for environmental management provides a brief summary of the key issues that arose during the workshop on barriers for long term isolation recurring themes from the session include the importance of quality control during installation followed by periodic inspection maintenance and monitoring and documentation of installation and performance data the book includes papers by the workshop presenters

Emulsions and Nanosuspensions for the Formulation of Poorly Soluble Drugs 1998

pharmacognosy fundamentals applications and strategies second edition represents a comprehensive compilation of the philosophical scientific and technological aspects of contemporary pharmacognosy the book examines the impact of the advanced techniques of pharmacognosy on improving the quality safety and effectiveness of traditional medicines and how pharmacokinetics and pharmacodynamics have a crucial role to play in discerning the relationships of active metabolites to bioavailability and function at the active sites as well as the metabolism of plant constituents structured in seven parts the book covers the foundational aspects of pharmacognosy the chemistry of plant metabolites their effects other sources of metabolites crude drugs from animals basic animal anatomy and physiology technological applications and biotechnology and the current trends in research new to this edition is a chapter on plant metabolites and sars cov 2 extensive updates on existing chapters and the development of a laboratory guide to support instructors execute practical activities on the laboratory setting covers the main sources of natural bioactive substances contains practice questions and laboratory exercises at the end of every chapter to test learning and retention describes how pharmacokinetics and

pharmacodynamics play a crucial role in discerning the relationships of active metabolites to bioavailability and function at active sites includes a dedicated chapter on the effect of plant metabolites on sars cov 2

Encyclopedia of Emulsion Technology 1987-12-18

surface phenomena adsorption at liquid liquid interfaces dilute emulsions as oilhydro sols emulsifying agents properties of emulsions theories of emulsions dual emulsions in biological investigations miscellaneous emulsions the preparation of emulsions basic principles the preparation of emulsions technical operations de emulsification physical measurements in emulsions

Commercial Waxes, Natural and Synthetic, Including Properties, Uses, Methods of Handling and Formulas for Making Commercial Wax Compositions 1944

the importance of emulsification techniques their use in the production of nanoparticles for biomedical applications as well as application of rheological techniques for studying the interaction between the emulsion droplets is gathered in this reference work written by some of the top scientists within their respective fields this book covers such topics as emulsions nano emulsions nano dispersions and novel techniques for their investigation it also considers the fundamental approach in areas such as controlled release drug delivery and various applications of nanotechnology

The Plant Disease Reporter 1967

this collection reports on the latest research achievements in the fields of environmentally friendly ink and materials technology environmentally friendly packaging materials technology green information recording material and environmentally friendly packaging materials technology the contents are anticipated to promote academic communication between related colleges and research institutes so as to improve the research and development capabilities available for the furthering of progress in environment friendly printing and packaging volume is indexed by thomson reuters cpci s wos

Physiological Responses of Certain Vegetables to Treatments with Wax Emulsions 1941

provides a comprehensive review of the major technologies and applications of lipids in food and nonfood uses including current and future trends discusses the nature of lipids their major sources and role in nutrition

Emulsions 1992

the book describes the science and technology of formulation and manufacturing of non nitroglycerine explosives with ammonium nitrate as the main ingredient based on the author s industry experience of more than thirty years it provides an unparalleled treatment of one of the commercially most important classes of explosives and therefore stimulates further research and development efforts in the field of

explosives for civil applications

Studies on the Development, Preparation, Properties and Applications of Wax Emulsions for Coating Nursery Stock and Other Plant Materials 1950

contents part 1 compounded waxes 1 general compatibility hardness melting point penetration refractive index solubility in oil viscosity 2 paraffin wax compounds 3 ethyl cellulose and wax mixtures compounding ethyl cellulose with incompatible substances methods of preparing mixtures of waxes with ethyl cellulose 4 compositions with resins and rubber resin wax compositions compatibility of varnish resins with waxes cumarone indene resins and wax compositions methacrylate resin hot melt blends microcrystalline wax resin blends wax rubber compositions 5 commercial wax additives part 2 wax technology 6 tests and techniques the melting points of waxes odor and taste emulsions fluorescence of waxes solubility of waxes commercial wax solutions surface tension of waxes specific gravity specific heat of petroleum waxes to alter properties of paraffin wax simple tests identification of mixed waxes separation and comparison of properties detecting wax additives evaluation of waxes for paperboard determinations of properties testing for quality control opacifying waxes coloring waxes 7 industrial uses of waxes adhesives candles coatings cosmetics electrical applications inks leather goods paper products pharmaceutical preparations photomechanics plastics polishes pyrotechnics rubber textile processing abbreviations alphabetic listing of trademark products index

Barrier Technologies for Environmental Management 1997-04-07

this edited book explores the use of surfactants in upstream exploration and production e p it provides a molecular mechanistic and application based approach to the topic utilising contributions from the leading researchers in the field of organic surfactant chemistry and surfactant chemistry for upstream e p the book covers a wide range of problems in enhanced oil recovery and surfactant chemistry which have a large importance in drilling fracking hydrate inhibition and conformance it begins by discussing the fundamentals of surfactants and their synthesis it then moves on to present their applicability to a variety of situations such as gas injections shale swelling inhibition and acid stimulation this book presents research in an evolving field making it interesting to academics postgraduate students and experts within the field of oil and gas

Pharmacognosy 2023-10-13

supplementary videos demonstrating various dispensing procedures can be viewed online at pharmpress.com pcdvideos book jacket

Modern Polishes and Specialties 1947

subsea production systems overview of subsea engineering subsea field development subsea distribution system flow assurance and system engineering subsea structure and equipment subsea umbilical risers and flowlines

The Theory of Emulsions and Their Technical Treatment *1943*

this handbook contains comprehensive information on more than 5000 trade names and generic chemicals and materials that are used in a broad range of formulations to prevent the contamination and decomposition of end products product degradation can be caused by exposure to oxygen ozone bacteria molds yeast mildew and fungi the industries that depend on the proper selection of preserving chemicals and materials are diverse and include plastics elastomers construction paper pulp agriculture textiles paints and coatings pharmaceutical cosmetics food beverages this handbook contains comprehensive information on a variety of preservatives available from major chemical manufacturers and can expedite the material selection process for chemists formulators and purchasing agents by providing the answers to these questions is the agent capable of inhibiting the detrimental effects of oxygen ozone or microbes to the extent necessary is the agent s overall physical and chemical attributes compatible with the product or system being protected can the agent remain stable under storage conditions and for the application requirements is its safety in production and handling acceptable does its level of toxicity meet environmental regulations does it meet cost requirements

Emulsion Formation and Stability *2013-06-04*

Bulletin *1887*

Green Printing and Packaging Materials *2011-11-22*

Lipid Technologies and Applications *2018-05-02*

Court of Customs and Patent Appeals Reports *1942*

Postharvest Wax-fungicide Treatments of Nectarines, Peaches, and Plums for Reducing Decay, Reducing Moisture Loss, Enhancing External Appearance *1973*

Ammonium Nitrate Explosives for Civil Applications *2013-02-01*

Industrial Waxes, Vol. 2, Compounded Waxes and Technology *1975-09*

Surfactants in Upstream E&P *2021-06-19*

Public Health Engineering Abstracts *1943*

Principles of Wood Science and Technology *2012-12-06*

Official Gazette of the United States Patent and Trademark Office *1998*

Pharmaceutical Compounding and Dispensing *2010*

Emulsion and Water-soluble Paints and Coatings* *1964

Subsea Engineering Handbook *2012-01-13*

Industrial Waxes: Compounded waxes & technology *1975*

Handbook of Preservatives *2004*

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