

Sulphonation Technology In The Detergent Industry

The book contains the formulae of different types of soaps, detergents (cake, powder and liquid) toiletries, analytical testing method, quality control of finished products, packing criteria of cosmetics and toiletries alongwith project profiles and addresses of raw material, plant and machinery suppliers. Soap is the traditional washing compound made from oil fats and caustic alkali. It is an item of daily necessity as cleaning agent.

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There are few specialty soaps like the washing soaps, castile soaps, sandal soap, specially flavored soaps, medicated soaps, toilet soaps and baby soaps. Population growth, especially households with children has a proportional impact on the growth of the manufacturing sector of the industry. The soap industry is vivacious, varied, creative and tricky, and has the prospective to provide a gratifying career. With increasing popularity there has been increase in potential competitors but it still has the opportunity of further exploitation. Today with increase in disposable incomes all

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around the world, demand for these products expected to increase because consumers are moving up towards premium products. With increasing awareness of hygienic standards, the market for the Soap is growing at a rate higher than 8% annually. People have become more creative in trying to find new ways in which they can make soap either for domestic use or commercial purposes. This book will provide all the basic facts and information you need to get started. You will be able to slowly build your way up to completely master the art of soap making. The book contains processes formulae, Photographs of Plant &

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Machinery with Supplier's Contact Details, Addresses of Raw Material Suppliers and providing information regarding manufacturing method of different washing and toilet soaps. Some of the fundamentals of the book are raw material oil and fats, fatty acids, manufacture of soap products, technology of soap manufacturing, various formulations of soaps, soap perfumery, management of soap factories, analytical methods. This book will be a mile stone for its readers who are new to this sector, will also find useful for professionals, entrepreneurs, those studying and researching in this important area.

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An analysis of allergic contact dermatitis - a common occupational health problem affecting between 5-15% of the workforce. This book considers the condition from the perspective of the toxicologist rather than the dermatologist.

????: Sulphonation technology in the detergent industry

Biodegradability of Surfactants
Production

Sulphonation Technology in the Detergent Industry

Organic Chemistry

Chemistry and Technology of Surfactants

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This book presents a complete, in-depth analysis for on the impact of liquid sulfur dioxide and liquid sulfur trioxide to carry out complex and difficult sulfonations, as well as manufacture of sulfuric acid with a CAPEX requirement of less than half, an area requirement less than one-third, and no emission of sulfur dioxide. The processes described in this volume represents an innovative approach relevant to the current manufacturing processes of sulfuric acid, sulfamic acid, para toluene sulfonic acid and other sulfonated product.

Facilitating the development of important processes that yield increased deterative performance from smaller

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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.

Sulphonation Technology in the Detergent Industry
Springer Science & Business Media

"Chemistry and Technology of Lubricants" describes the chemistry and technology of base oils, additives and applications of liquid lubricants. This Third Edition reflects how the chemistry and technology of lubricants

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has developed since the First Edition was published in 1992. The acceleration of performance development in the past 35 years has been as significant as in the previous century: Refinery processes have become more precise in defining the physical and chemical properties of higher quality mineral base oils. New and existing additives have improved performance through enhanced understanding of their action. Specification and testing of lubricants has become more focused and rigorous.

"Chemistry and Technology of Lubricants" is directed principally at those working in the lubricants industry as well as individuals working within academia seeking a chemist's viewpoint of lubrication. It is also of value to

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engineers and technologists requiring a more fundamental understanding of the subject.

Encyclopedia of Chemical Technology: Sugar to thin films

Toxicology of Contact Hypersensitivity

Handbook on Soaps, Detergents & Acid Slurry (3rd Revised Edition)

Handbook of Technical Textiles

Herbal Soaps & Detergents Handbook

Powdered Detergents

With contributions from experts and pioneers, this set provides readers with the tools they need to answer the need for sustainable development faced

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by the industry. The six volumes constitute a shift from the traditional, mostly theoretical focus of most resources to the practical application of advances in research and development. With con

This work presents a comprehensive survey of important anionic surfactants. It delineates current manufacturing technologies, methods of analysis, practical applications, environmental behaviour and the physicochemical and toxicological properties of surfactants and their related by-products. The uses of anionic surfactants in the cleaning, cosmetic, textile, leather, food, petroleum, metalworking and paper industries, are encompassed.

This book is about Sulph(on)ation Technology in its

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technical entirety, aiming at superiority in final product quality, raw material utilisation, sustained plant reliability and safety, minimisation of liquid effluent and gaseous emissions; it is about the total quality of the operation. It will be of value to engineers and chemists who are, or will be, involved in the practical daily operation of sulphonation plants or R&D activities. The book can also be used as a tool for the teacher in preparing final year projects in a chemical engineering curriculum. The book covers sulphonation of alkylbenzenes, primary alcohols, alcohol ethers, alpha-olefins and fatty acid methyl esters, with a strong emphasis on the sulphur-based S₂O₈²⁻/air sulphonation technology. The first part deals

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with raw material specifications, hazards, storage, handling and physical properties. In the following section the process chemistry is discussed, indicating main chemical reactions, undesired parallel and consecutive reactions, exothermal heat effects and all other process chemistry data that are relevant for process selection and equipment design. The section about the actual process equipment from the various plant equipment suppliers (Ballestra, Chemithon, Mazzoni, Meccaniche Modeme and Lion Corp.) takes into account the chemical reaction engineering aspects derived from the sulphonation technology processing chemistry. Product quality, product storage and handling, product safety and physical

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properties are the contents of the next section. The effluent handling and exhaust gas treatment of the SO₂ sulphonation technology are further discussed in detail.

Applied Technology and Instrumentation for Process Control presents the complex technologies of different manufacturing processes and the control instrumentation used. The large variety of processes prohibits covering more than a few. Carefully selected and diverse, but representative, examples show how fundamentally basic simpler elements or techniques can be coordinated and expanded into more control systems. This book is suitable for all levels of practitioners and engineers in related

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industries or applications.

Soaps, Detergents and Disinfectants Technology Handbook (3rd Revised Edition)

Advances in Sulphonation Techniques

Surfactants and Detergents

Chemistry and Technology of Lubricants

Soaps, Detergents and Disinfectants Technology

Handbook- 2nd Revised edition (Washing Soap,

Laundry Soap, Handmade Soap, Detergent Soap,

Liquid Soap , Hand Wash, Liquid Detergent,

Detergent Powder , Bar, Phenyl, Floor Cleaner, Toilet

Cleaner, Mosquito Coils, Naphthalene Balls, Air

Freshener, Hand Sanitizer and Aerosols Insecticide)

The Sulfonation of Benzene

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The second edition of Handbook of Technical Textiles, Volume 1: Technical Textile Processes provides readers with a comprehensive understanding of the latest advancements in technical textiles. With revised and updated coverage, including several new chapters, this volume reviews recent developments and technologies in the field, beginning with an overview of the technical textiles industry that includes coverage of technical fibers and yarns, weaving, spinning, knitting, and nonwoven production. Subsequent sections

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include discussions on finishing, coating, and the coloration of technical textiles. Provides a comprehensive handbook for all aspects of technical textiles Presents updated, detailed coverage of processes, fabric structure, and applications An ideal resource for those interested in high-performance textiles, textile processes, textile processing, and textile applications Contains contributions from many of the original, recognized experts from the first edition who update their respective chapters

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The Indian detergent industry is about three decades old. An interesting and unique feature of detergent industry in India is the existence of non-power operated units which do not use any electrical power for the production of detergent powder. But the production technology of detergents have been changed from slower batch processes to quicker continuous processes involving costly equipments, high technique in process control, more skilled personnel and requiring large input. This text emphases

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practical aspects of detergent production with latest development and other special products based on synthetic surfactants. This book is an attempts to fill the need of those desirous of starting detergent industries in small scale sector and necessarily contains analytical methods for testing and evaluation of raw as well as final products. The book also contains addresses of machinery and raw material suppliers.

Chromic or colour related phenomena are produced in response to a chemical or

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physical stimulus. This new edition will update the information on all those areas where chemicals or materials interact with light to produce colour, a colour change, or luminescence especially in the imaging, analysis, lighting and display areas. The book has been restructured to show greater emphasis on applications where 'coloured' compounds are used to transfer energy or manipulate light in some way therefore reducing the details on classical dyes and pigments. In the past eight years, since the previous edition, there has been a

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remarkable increase in the number of papers and reviews being produced reflecting the growth of interest in this area. This ongoing research interest is matched by a large number of new technological applications gaining commercial value covering e.g. biomedical areas, energy, data storage, physical colour, bio-inspired materials and photonics. This book appeals to industrial chemists, professionals, postgraduates and as high level recommended reading for colour technology courses.

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Surfactants by virtue of their structure form self-assembled organized structures that exhibit fascinating properties useful for a wide range of applications. This book is a compilation of chapters from leading experts highlighting the use of specific surfactants and their functional properties in new and emerging areas of science and technology. The first two chapters of this book discuss the various applications of surfactants, including their use in cosmetics, oil recovery from rocks and mineral processing. Subsequent

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chapters cover advanced topics like new-generation polymer-based nanoparticles with microbial activity and complex phase systems formed as a result of charge-induced interactions between surfactants, polymers and proteins with potential applications in medical devices. In addition, this book reports for the first time on bio-surfactants extracted from micro-organisms present in the clouds. This report is not the only one of its kind, but it opens up a totally new area of research in terms of an unexplored

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source of bio-surfactants. It also paves the way for understanding their role in controlling our atmosphere and climate.

A Practical Guide to the Manufacture of Sulfuric Acid, Oleums, and Sulfonating Agents

*Second World Conference on Detergents
The Manufacture of Soaps, Other Detergents, and Glycerine*

Modern Technology of Soaps, Detergents & Toiletries (with Formulae & Project Profiles) 4th Revised Edition

Looking Towards the 90's : Proceedings

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Anionic Surfactants

Chemical engineering applications have been a source of challenging optimization problems in terms of economics and technology. The goal of this book is to enable the reader to get instant information on fundamentals and advancements in chemical engineering. This book addresses ongoing evolutions of chemical engineering and provides overview to the state of the art advancements. Molecular perspective is increasingly important in the refinement of kinetic and thermodynamic modeling. As a result, much of the material was revised on industrial problems and their sophisticated solutions from known scientists around the world. These issues were divided in to two

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sections, fundamental advances and catalysis and reaction engineering. A distinct feature of this text continues to be the emphasis on molecular chemistry, reaction engineering and modeling to achieve rational and robust industrial design. Our perspective is that this background must be made available to undergraduate, graduate and professionals in an integrated manner.

There has been consistent rise in Indian toiletries Industry. Novelty in ideas and marketing seems to be the major subject matter of the Indian soap industry. With increasing popularity there has been increase in potential competitors but it still has the opportunity of further exploitation. The soaps, detergent and

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toiletries product industry is vivacious, varied, creative and tricky, and has the prospective to provide a gratifying career. Since these are basic requirements throughout the world undoubtedly the toiletries industry is one of the fastest growing and most profitable markets in international arena has been for the past many years. Total quality management has its importance in managing every industry so is its importance and relevance in Oils, Soaps, and Detergents Industries. Featured as one of best seller the book modern technology of soaps, detergent and toiletries is another resourceful book written by P. K. Chattopadhyay. The author is highly experienced consultant to cosmetics and toiletries

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industries. The book contains the formulae of diverse types of soaps, detergents (cake, powder and liquid) toiletries, methodical testing method, quality control of complete products, packing criterion of cosmetics and toiletries along with project profiles, machinery photographs and addresses of raw material, plant and machinery suppliers. The book contains detail chapter on: Principal Groups of Synthetic Detergents Classification, Detergent Bar, Washing Soap: Laundry Soap Formulation, tooth paste, after shave lotion, Hair Shampoo, Fundamentals of Science, Testing of Finished Goods, Finished Product Quality Control Procedures, Natural Essential Oils in India : A Perspective, Essential Oils in India and Trade

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Summary and Conclusion, etc. Basic information in entering a market and the opportunities and requirements of the potential sector has been the best way to penetrate in a market. How and what if properly answered can take you to a long way. The first hand information on different types of toiletries product have been properly dealt in the book and can be very useful for those looking for entrepreneurship opportunity in the soap industry.

The awareness and development of 'biodegradable' surfactants pre-dates current pressures by the environmental movement by nearly three decades, wherein a responsible industry mutually agreed to replace 'hard', non-biodegradable components of

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household detergents by 'soft', biodegradable alternatives, without course to legislation. The only requirement at that time was for surfactants used in detergents to exhibit a 'primary biodegradability' in excess of 80%; this referring to the disappearance or removal from solution of the intact surface active material as detected by specified analytical techniques. This proved useful, as observed environmental impacts of surfactants, e.g. visible foam on rivers, are associated with the intact molecule. Test methods for 'primary biodegradability' were eventually enshrined in EU legislation for nonionic surfactants (Directive 821242/EEC, amended 73/404IEEC) and for anionic surfactants

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(Directive 8212431EEC, amended 73/405IEEC). No approved test methods and resultant legislation have been developed for cationic and amphoteric surfactants to date. The environmental classification of chemical substances, which of course includes surfactants, and associated risk assessment utilises a second criterion 'ready biodegradability'. This may be assessed by a number of methods which monitor oxygen uptake (BOD), carbon dioxide production or removal of dissolved organic carbon (DOC). Some surfactants which comply with the above Detergents Directive are borderline when it comes to 'ready biodegradability'.

The Indian detergent industry is about three decades

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old. An interesting and unique feature of detergent industry in India is the existence of non power operated units which do not use any electrical power for the production of detergent powder. But the production technology of detergents have been changed involving high technique in process control, more skilled personnel and requiring large input. There are various forms of detergents; liquid detergents, paste detergents, solid detergents etc. Whether in liquid or in powdered forms, present detergent products are complex mixtures of several ingredients including performance additives such as bleaches, bleach activators etc. The scope and spectrum of methods and techniques applied in

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detergent analysis have changed significantly during the last decade.. The book outlines features and experimental parameters for many essential procedures, and emphasizes the latest techniques and methods. This book emphasizes practical aspects of detergent production with latest development and other special products based on synthetic surfactants. This book basically deals with the builders, additives and components of detergents, recent developments in surfactant, manufacture of active Ingredients for detergents, manufacture of finished detergents, application and formulation of detergents, packaging of detergents, analysis of detergents, machinery photographs with their

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suppliers, directory of raw material suppliers etc..

This is an attempt to fill the need of those desirous of starting detergent industry in small scale sector and necessarily contains analytical methods for testing and evaluation of raw as well as final products.

Sources, Processing, Applications, and Competition
Liquid Sulphur Dioxide as a Solvent of Sulphur Trioxide

Introduction to Surfactant Analysis

Electric Vehicle Technology Explained

Applied Technology and Instrumentation for Process Control

Cosmetic Formulation

Surfactants are used throughout industry as components in a

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hugerange of formulated products or as effect chemicals in theproduction or processing of other materials. A detailedunderstanding of the basis of their activity is required by allthose who use surfactants, yet the new graduate or postgraduatechemist or chemical engineer will generally have little or noexperience of how and why surfactants work.

Chemistry & Technology of Surfactants is aimed at newgraduate or postgraduate level chemists and chemical engineers atthe beginning their industrial careers and those in later life whobecome involved with surfactants for the first time. The book is astraightforward and practical survey of the chemistry ofsurfactants and their uses, providing a basic introduction tosurfactant theory, information on the various types of surfactantand some application details. This will

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allow readers to build onto their scientific education the concepts and principles on which the successful use of surfactants, across a wide range of industries, is based. Chemical admixtures are used in concrete mixtures to produce particular engineering properties such as rapid hardening, water-proofing or resistance to cold. Chemical Admixtures for Concrete surveys recent developments in admixture technology, explaining the mechanisms by which admixtures produce their effects, the various types of admixtures available

Novelty in ideas and marketing seems to be the major subject matter of the Indian soap industry. The soaps, detergent and acid slurry product industry are vivacious, varied, creative and tricky, and have the prospective to provide a gratifying career.

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Soaps and detergents are used frequently in our daily life. We use them to wash our hands and clean our clothes without ever really paying attention to how they work. Beneath the plain white surface of a bar of soap lie an intriguing history and a powerful chemistry. It has been said that amount of soap and detergent consumed in a country is a reliable measure of its civilizations. There was a time when these products were luxury; now it is a necessity. Acid slurry is a sulphonation product made by sulphonation of linear alkyl benzene by oleum or SO_3 or sulphuric acid or combinations of above. It is used in manufacturing of various detergents. The Soap and Detergent industry is profoundly lucrative with splendid market potential as well as bright future scope. In order to meet the requirement of market demand, many more

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new units are recommended to be established on small and cottage scale. Soaps and detergents are very similar in their chemical properties. However, there is a significant difference between them; soaps are produced from natural products, and detergents are synthetic, or manmade. The market is expected to grow at rates ranging from under 4% to around 4.5%. These are very modest rates considering that the lifestyles not only of urbanites, but even of well off rural folks are changing at a very high pace. The analysts are expecting the industry to continue to grow in both the industrialized as well as developing nations. The present book has been written keeping in view the basic difficulties of the entrepreneurs. Nominal investment is required for this industry which comprises simple method of processing for

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manufacturing of various types of soaps, detergents and acid slurry. The book contains chapters on: acid slurry, detergent manufacturing, detergents of various types, principal groups of synthetic detergents, inorganic components of detergents, synthesis of detergents, liquid detergents, packaging of soaps and detergent and many more such chapters. The enclosure also contains a list of suppliers of raw material (overseas) and list of plant and machinery suppliers (overseas). Fundamental information in venturing a market and the opportunity and prerequisite of the potential sector has been the superlative way to make a way into in a market. How and what if correctly taken care can take you to a long way. The first hand information on different types of soaps, detergent and acid slurry products have been properly dealt in the book and can

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be very useful for those looking for entrepreneurship opportunity in the said industry.

This book covers a wide range of food and oleochemical applications of palm and coconut oils. The presentations were part of the World Conference on Palm and Coconut Oils for the 21st Century held in Bali and reflect the changes in the oleochemical industry during the past decade.

Kirk-Othmer Encyclopedia of Chemical Technology, Volume 23

Synthetic Detergents

Modern Technology of Soaps, Detergents and Toiletries

II. the Viscosity-composition Curve for Ideal Liquid Mixtures,

III. Ideal Solutions of Solids in Liquids ...

Handbook of Detergents, Part F

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Handbook of Detergents - 6 Volume Set

This sixth part of the multi-volume Handbook of Detergents focuses on the production of surfactants, builders and other key components of detergent formulations, including the various multi-dimensional aspects and implications on detergent formulations and applications domestically, institutionally, in industry and agriculture, with all the environmental consequences involved. Thus, Part F constitutes a comprehensive treatise of the multi-dimensional issues relating to this industry production technology, emphasizing the alignment of scientific knowledge and up-to-date

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technological and technical know-how with the relevant contemporary applied practice. An international effort and industry-academia collaboration, this volume features expert contributions, focusing on the contemporary state-of-the-art concerning the many facets of the production of detergents and surfactants. Thus, the Handbook of Detergents, Part F – Production, deals with the production of anionic, cationic, nonionic, and amphoteric surfactants, key builders, bleaching and whitening agents, enzymes and other components of detergent formulations in different contexts, gauges and related concerns, and discusses various technological procedures of production

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processes involving the components of surfactants and detergents.

The fifth edition of the Kirk-Othmer Encyclopedia of Chemical Technology builds upon the solid foundation of the previous editions, which have proven to be a mainstay for chemists, biochemists, and engineers at academic, industrial, and government institutions since publication of the first edition in 1949. The new edition includes necessary adjustments and modernization of the content to reflect changes and developments in chemical technology. The analysis of surfactants presents many problems to the analyst. This book has been written by an experienced

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team of surfactant analysts, to give practical help in this difficult field. Readers will find the accessible text and clear description of methods, along with extensive references, an invaluable aid in their work.

The use of herbs for medicinal and cosmetic purpose goes back to the ancient times. The emphasis at the present hour has been laid on the spectacular growth of the herbal and ayurvedic products. The demand in past is found to have increased with increase in number of middle class population. People are now a days very much aware of the ingredients in cosmetic products, the benefits of plant products and the harmful effects of chemical ingredients.

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The presence of artificial and chemical ingredients in cosmetic products has made people to rethink about suitable alternatives to suit their personal care regime. The herbal products have finally made their appearance in packaged form in the domestic markets, as cosmetics and personal care preparation such as soaps, shampoos, detergent bars, liquid soaps, liquid detergents, etc. These products play a vital role in our sense of well being and quality of life. The herbal soaps and detergents directly influence our emotions and can trigger moods. These creations not only protect the skin from harmful sun radiations but also leave behind a pleasant fragrance. Due

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to the increasing awareness and importance of cleanliness and healthiness, the use of herbal products is also increasing. Future demand for herbal products depends upon the per capita rate of consumption and segment of population using these products. This handbook provides detailed information on the manufacturing process of herbal soaps and detergents. This book contains numerous formulae, manufacturing process of different type of soaps and detergents which are used in day to day life. The book is an unique compilation and will be very helpful to all its readers, new entrepreneurs, professionals, beauty care product manufacturers, existing units, technical

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institutions, etc.

The Complete Technology Book on Detergents

Liquid Detergents

Technical Textile Processes

Surfactants: Chemistry, Interfacial Properties,
Applications

The Viscosity of Liquids

Chemical Admixtures for Concrete

Cosmetics are the most widely applied products to the skin and include creams, lotions, gels and sprays. Their formulation, design and manufacturing ranges from large cosmetic houses to small private companies. This book

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covers the current science in the formulations of cosmetics applied to the skin. It includes basic formulation, skin science, advanced formulation, and cosmetic product development, including both descriptive and mechanistic content with an emphasis on practical aspects. Key Features: Covers cosmetic products/formulation from theory to practice Includes case studies to illustrate real-life formulation development and problem solving Offers a practical, user-friendly approach, relying on the work of recognized experts in the field Provides insights into the future directions in cosmetic product development Presents basic formulation, skin science, advanced formulation and cosmetic product development

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This publication provides comprehensive material on the chemical and physical attributes of surfactants and new models for the understanding of structure-property relationships. Surfactants Chemistry, Interfacial Properties, Applications provides efficient instruments for the prognostication of principal physicochemical properties and the technologic applicability from the structure of a surfactant through the discussion of interrelations between the chemical structure, physicochemical properties and the efficiency of technologic application. Also included are informative overviews on new experimental techniques and abundant reference material on manufacturers, nomenclature, product properties, and experimental examples. The

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publication is accompanied by a CD-ROM, which is needed for the application of the thermodynamic and kinetic models to experimental data.

Soaps are cleaning agents that are usually made by reacting alkali (e.g., sodium hydroxide) with naturally occurring fat or fatty acids. A soap is a salt of a compound known as a fatty acid. A soap molecule consists of a long hydrocarbon chain (composed of carbons and hydrogens) with a carboxylic acid group on one end which is ionic bonded to a metal ion, usually a sodium or potassium. The hydrocarbon end is nonpolar and is soluble in nonpolar substances (such as fats and oils), and the ionic end (the salt of a carboxylic acid) is soluble in water. Soap is made by combining tallow (or

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other hard animal fat) or vegetable or fish oil with an alkaline solution. The two most important alkalis in use are caustic soda and caustic potash. A detergent is an effective cleaning product because it contains one or more surfactants. Because of their chemical makeup, the surfactants used in detergents can be engineered to perform well under a variety of conditions. Such surfactants are less sensitive than soap to the hardness minerals in water and most will not form a film.

Disinfectants are chemical agents applied to non-living objects in order to destroy bacteria, viruses, fungi, mold or mildews living on the objects. Disinfectants are chemical substances used to destroy viruses and microbes (germs), such as bacteria and fungi, as

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opposed to an antiseptic which can prevent the growth and reproduction of various microorganisms, but does not destroy them. The ideal disinfectant would offer complete sterilization, without harming other forms of life, be inexpensive, and non-corrosive. The global soap and detergent market is expected to reach USD 207.56 billion by 2025. The industrial soaps & detergents are extensively used by the commercial laundries, hotels, restaurants, and healthcare providers. Increasing demand from healthcare and food industries will continue to drive the market. Aerosol and liquid products are the common disinfectants used in hospitals, although growing number of healthcare facilities are implementing ultraviolet disinfection systems as further measure.

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Increasing demand for disinfectants from water treatment and healthcare industries is fuelling growth of the global disinfectants market. The major contents of the book are Liquid Soaps and Hand Wash, Liquid Soap and Detergents, Washing Soap: Laundry Soap Formulation, Antiseptic and Germicidal Liquid Soap, Manufacturing Process And Formulations Of Various Soaps, Handmade Soap, Detergent Soap, Liquid Detergent, Detergent Powder, Application and Formulae Of Detergents, Detergent Bar, Detergents Of Various Types, Formulating Liquid Detergents, Phenyl, Floor Cleaner, Toilet Cleaner, Mosquito Coils, Naphthalene Balls, Air Freshener (Odonil Type), Liquid Hand Wash and Soaps, Hand Sanitizer, Aerosols–Water and Oil Based Insecticide (Flies,

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Mosquitoes Insect and Cockroach Killer Spray), Ecomark Criteria for Soaps & Detergents, Plant Layout, Process Flow Chart and Diagram, Raw Material Suppliers List and Photographs of Machinery with Supplier's Contact Details. This book will be a mile stone for its readers who are new to this sector, will also find useful for professionals, entrepreneurs, those studying and researching in this important area.

A bestseller in its first edition, Liquid Detergents, Second Edition captures the most significant advances since 1996, maintaining its reputation as a first-stop reference in all fundamental theories, practical applications, and manufacturing aspects of liquid detergents. Featuring new material and updates in every chapter, the book

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expands its coverage of emulsions to include nanoemulsions, adds new data to elucidate the rheology of current commercial detergent raw materials as compared to finished products, and offers a more complete theoretical treatment of the aggregation in non-aqueous solvents. The book now covers all rheology modifiers and thickeners for detergent applications, antibacterial and sensorial light-duty liquid products, color/fabric care and wrinkle reduction in heavy-duty liquid detergents, and household cleaning wipes in specialty liquid household surface cleaners. Rewriting the chapters on the latest improvements and growing benefits in fabric softeners, liquid hand soaps and body washes, and shampoos and conditioners, the latter

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contains extensive summaries of patents for various new products and technologies. The final chapter, dedicated to the manufacturing of liquid detergents, offers a discussion on continuous vs. batch processes and micro-contamination. The most comprehensive guide of its kind, Liquid Detergents, Second Edition, is a balanced and practical reference that will continue to inspire students, researchers, chemists, and product developers in detergent industry, surfactant science and industrial chemistry.

Principles and Practice

With Formulae and Project Profiles

The Complete Technology Book on Soaps (2nd Revised Edition)

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Chromic Phenomena

Technological Applications of Colour Chemistry

Proceedings of the World Conference on Palm and Coconut Oils for the 21st Century

This critical volume provides practical insights on sulfuric acid and related plant design and on techniques to improve and enhance substantially the efficiency of an existing plant by means of small modifications. The book provides readers with a better understanding of the state-of-art in sulfuric acid manufacture as well as, importantly, in the manufacture of value-added products based on sulfur that are also associated with the manufacture of sulfuric acid. Overall, engineers and plant managers will

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be introduced to technologies for making their sulfuric acid enterprises more productive, remunerative, and environmentally friendly. A Practical Guide to the Manufacture of Sulfuric Acid, Oleums, and Sulfonating Agents covers sulfuric acid and derivative chemical plant details from the nuts-and-bolts level to a holistic perspective based on actual field experience. The book is indispensable to anyone involved in implementing a sulfuric acid or related chemical plant.

The Complete Technology Book on Detergents (2nd Revised Edition)

Advances in Chemical Engineering