

VITTHAL S. KULKARNI
CHARLES SHAW



ESSENTIAL CHEMISTRY FOR
FORMULATORS OF SEMISOLID AND
LIQUID DOSAGES



Essential Chemistry For Formulators Of Semisolid And Liquid Dosages

Amit Kumar Nayak, Kalyan Kumar Sen



Essential Chemistry For Formulators Of Semisolid And Liquid Dosages:

Essential Chemistry for Formulators of Semisolid and Liquid Dosages Vitthal S. Kulkarni, Charles Shaw, 2015-10-15 A needed resource for pharmaceutical scientists and cosmetic chemists Essential Chemistry for Formulators of Semisolid and Liquid Dosages provides insight into the basic chemistry of mixing different phases and test methods for the stability study of nonsolid formulations The book covers foundational surface colloid chemistry which forms the necessary background for making emulsions suspensions solutions and nano drug delivery systems and the chemistry of mixing which is critical for further formulation of drug delivery systems into semisolid gels creams lotions and ointments or liquid final dosages Expanding on these foundational principles this useful guide explores stability testing methods such as particle size rheological viscosity microscopy and chemical and closes with a valuable discussion of regulatory issues Essential Chemistry for Formulators of Semisolid and Liquid Dosages offers scientists and students the foundation and practical guidance to make and analyze semisolid and liquid formulations Unique coverage of the underlying chemistry that makes possible stable dosages Quality content written by experienced experts from the drug development industry Valuable information for academic and industrial scientists developing topical and liquid dosage formulations for pharmaceutical as well as skin care and cosmetic products

Dosage Forms, Formulation Developments and Regulations Amit Kumar Nayak, Kalyan Kumar Sen, 2023-12-09 Dosage Forms Formulation Developments and Regulations Volume One in the Recent and Future Trends in Pharmaceutics series explores aspects of pharmaceutics with an original approach focused on technology novelties and future trends in the field The book discusses the most recent developments in pharmaceutical preformulation and formulation studies biopharmaceutics and novel pharmaceutical formulations regulatory affairs and good manufacturing practices Exciting areas such as formulation strategies optimization techniques the biopharmaceutical classification system and pharmaceutical aerosols are included The field of pharmaceutics is highly dynamic and rapidly expanding day by day so it demands a variety of amplified efforts for designing and developing pharmaceutical processes and formulation strategies This is an essential reference for researchers in academia and industry as well as advanced graduate students in pharmaceutics Examines trends and recent technologies in dosage formulation and regulation Contains contributions from leading experts in academia research industry and regulatory agencies Includes high quality illustrations flow charts and tables for easy understanding of concepts Discusses practical examples and research case studies

Comprehensive Foodomics , 2020-11-12 Comprehensive Foodomics Three Volume Set offers a definitive collection of over 150 articles that provide researchers with innovative answers to crucial questions relating to food quality safety and its vital and complex links to our health Topics covered include transcriptomics proteomics metabolomics genomics green foodomics epigenetics and noncoding RNA food safety food bioactivity and health food quality and traceability data treatment and systems biology Logically structured into 10 focused sections each article is authored by world leading scientists who cover

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The Role of Microstructure in Topical Drug Product Development Nigel Langley, Bozena Michniak-Kohn, David W. Osborne, 2019-08-07 Following the Semi solid Microstructure Workshop sponsored by BASF and hosted by the Rutgers Center for Dermal Research a pharmaceutical product development working group was formed The group known as the Q3 Working Group selected the following five areas of focus Particle Globule Size and Distribution Viscosity Rheology Spreadability In Vitro Testing State of API State of Excipients A committee was appointed for each of these five areas The committees were tasked to review the literature identify best practices list experimental details required for an independent lab to duplicate the test and propose scientific studies that may meaningfully advance this specific area of focus Each committee has a chair or co chairs that are the lead author s of the chapter The Q3 Working Group members serve as the critical reviewers of each chapter making suggestions that improve the quality of the document and that make each of the five chapters uniform in scope and content Pharmaceutical development scientists that formulate topical products creams lotions gels suspensions foams etc and all the allied raw material suppliers packaging suppliers contract laboratories including CROs CMOs and regulators need access to this book Overall the topic of semisolid microstructure is of equal importance to the generic pharmaceutical companies filing Abbreviated New Drug Applications or

ANDAs and pharmaceutical companies filing New Drug Applications NDAs In addition to products applied to the skin hair and nails The Role of Microstructure in Topical Drug Product Development crosses over and is essential reading to developers of oral suspensions ophthalmic ointments and gels otic suspension vaginal semisolids and retention enemas

Developing Solid Oral Dosage Forms Yihong Qiu, Yisheng Chen, Geoff G.Z. Zhang, Lawrence Yu, Rao V.

Mantri, 2016-11-08 Developing Solid Oral Dosage Forms Pharmaceutical Theory and Practice Second Edition illustrates how to develop high quality safe and effective pharmaceutical products by discussing the latest techniques tools and scientific advances in preformulation investigation formulation process design characterization scale up and production operations This book covers the essential principles of physical pharmacy biopharmaceutics and industrial pharmacy and their application to the research and development process of oral dosage forms Chapters have been added combined deleted and completely revised as necessary to produce a comprehensive well organized valuable reference for industry professionals and academics engaged in all aspects of the development process New and important topics include spray drying amorphous solid dispersion using hot melt extrusion modeling and simulation bioequivalence of complex modified released dosage forms biowaivers and much more Written and edited by an international team of leading experts with experience and knowledge across industry academia and regulatory settings Includes new chapters covering the pharmaceutical applications of surface phenomenon predictive biopharmaceutics and pharmacokinetics the development of formulations for drug discovery support and much more Presents new case studies throughout and a section completely devoted to regulatory aspects including global product regulation and international perspectives *Pharmaceutical Polymer Formulations and its Applications* Raj K. Keservani, Eknath D. Ahire, Rajesh Kumar Kesharwani, 2025-06-12 The book is an essential resource for anyone in the pharmaceutical field as it provides in depth insights into the versatile roles of polymers in controlled drug delivery highlighting their critical applications in product innovation development and manufacturing Pharmaceutical Polymer Formulations and Its Applications provides an overview of the applications of pharmaceutical polymers in the vast field of controlled drug delivery Polymers have the potential for a range of uses in the design of pharmaceutical dosage forms They can be used as suspending emulsifying binding or flocculant agents as well as adhesives and packaging and coating materials They can be used to make gels nanoparticles microparticles and various capsules Polymers have played an indispensable role in the manufacture of pharmaceutical products This volume includes various polymers used in pharmacy based on their applications The overviews focus on the use of pharmaceutical polymers for controlled drug delivery applications Examples of pharmaceutical polymers and the principles of controlled drug delivery are outlined and applications of polymers for controlled drug delivery are also discussed Readers will find the book Explores the latest tactics utilized for the application of polymers in the healthcare industry Showcases the numerous innovations of polymers in manufacturing of pharmaceuticals Provides essential elements for the conceptualization and comprehension of polymer products by highlighting their aspects

and overcoming manufacturing regulatory and quality control obstacles Audience The book will interest chemists and healthcare professionals interested in pharmaceutical innovation using polymers **Cosmetic Formulation** Heather A.E. Benson, Heather Benson, Michael S. Roberts, Vania Rodrigues Leite-Silva, Kenneth Walters, 2019-04-05 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 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 **Pharmaceutical Microemulsions for Parenteral Delivery** Vivek P. Chavda, Vandana B. Patravale, 2025-09-23 Parenteral delivery of hydrophobic drugs is a challenging task Research on exploiting newer approaches to make the delivery of pharmaceuticals by nondigestive tracts effective yet safe and cost effective shows that microemulsion is one such approach for parenteral delivery This new book provides systematic information regarding the preformulation of drugs formulation using quality by design QbD principles and characterization of parenteral microemulsions for drug delivery The book explores specific aspects of microemulsions such as the role of surfactants and cosurfactants in formulation clinical aspects of parenteral microemulsion regulatory perspectives and patents as well as future challenges in this field of research *Introduction to Cosmetic Formulation and Technology* Gabriella Baki, 2022-12-12 Introduction to Cosmetic Formulation and Technology An accessible and practical review of cosmetics and OTC drug cosmetic products In the newly revised second edition of Introduction to Cosmetic Formulation and Technology veteran educator and researcher Dr Gabriella Baki delivers a comprehensive discussion of cosmetics and personal care products including coverage of basic concepts ingredient selection formulation technology and testing The book offers a clear and easy to understand review of cosmetics and over the counter OTC drug cosmetic products available in the United States In this latest edition the author expands on general concepts and adds brand new chapters on the basics of cosmetics testing ingredients and skin lightening products Each chapter includes a summary of common abbreviations with questions provided online alongside a solutions manual for instructors Readers will also find A thorough introduction to the basic definitions claims and classifications of cosmetics and OTC drug cosmetic products Comprehensive explorations of the current rules and regulations for cosmetics and OTC drug cosmetic products in the United States and European Union Detailed review of cosmetic ingredients functions and typical uses both in a dedicated a chapter and included within various others Practical coverage of good manufacturing practices for cosmetics including documentation buildings and facilities

equipment and personnel Fulsome review of a variety of skin and hair care products color cosmetics and other personal care products Perfect for undergraduate and graduate students studying cosmetic science in chemistry chemical engineering pharmaceutical biomedical and biology departments Introduction to Cosmetic Formulation and Technology will also benefit cosmetic chemists cosmetic product formulators cosmetic scientists quality control managers cosmetic testing specialists and technicians

Engineering of Natural Polymeric Gels and Aerogels for Multifunctional Applications Sabu Thomas, Bastien Seantier, Blessy Joseph, 2024-02-15 Engineering of Natural Polymeric Gels and Aerogels for Multifunctional Applications brings together detailed information on gels hydrogels and aerogels derived from natural polymers covering materials processing fabrication techniques structure property relationships and novel applications The book begins by introducing polymeric gels hydrogels and aerogels the different types and properties advantages and disadvantages manufacturing techniques production and scalability and the possible applications This is followed by thorough coverage of processing methods for obtaining natural polymer based gels and hydrogels with separate chapters focusing on physical processes chemical processes green processes and processing for aerogels The final chapters of the book focus on the preparation of natural polymer based gels hydrogels and aerogels for many state of the art applications including biomedical absorbent energy saving filtration and sensing areas Engineering of Natural Polymeric Gels and Aerogels for Multifunctional Applications is an essential resource for all those with an interest in polymeric gels and natural polymers including researchers and scientists in polymer engineering polymer chemistry sustainable materials biomaterials materials science and engineering and chemical engineering In industry this book supports scientists R D and engineers looking to utilize novel bio based materials for advanced applications Covers the physical chemical and green processing methods for obtaining gels hydrogels and aerogels from natural polymers Explores a range of cutting edge uses including in biomedical absorbent energy saving filtration and bio sensing applications Presents the latest innovations in the field including the preparation of lightweight highly open porous polysaccharide and protein aerogels

Micro- and Nanoengineered Gum-Based Biomaterials for Drug Delivery and Biomedical Applications Sougata Jana, Subrata Jana, 2022-01-21 Micro and Nanoengineered Gum Based Biomaterials for Drug Delivery and Biomedical Applications focuses on micro and nanotechnology in gums and biopolymers as drug and biomolecule carriers and their applications in biomedicine Currently natural gums and polymers are widely utilized as biocarrier systems to deliver drugs and biomolecules to the target site for prolonged release and the desired therapeutic effect Natural gums and polymers are important because they are easily available from natural sources and are characteristically biodegradable biocompatible and nontoxic Natural gums and polymers are also chemically modified with other polymers in the presence of cross linking agents to develop scaffolds matrices composites and interpenetrating polymer networks using micro and nanotechnology The book also discusses biological applications such as gene delivery cancer therapy tissue engineering bioimaging and theranostics This book is an important reference source for biomaterials scientists

biomedical engineers and pharmaceutical scientists who are looking to increase their understanding of how micro and nanoengineered biomaterials are being used to create more efficient gum based drug delivery systems Explains how micro and nanoengineering is being used to make a variety of gum types more effective as nanocarriers Explores the major biomedical applications of various gum classes Assesses the major challenges of using micro and nanotechnologies in gum based biomedical systems Graft Copolymers for Biomedical and Tissue Engineering Applications Rishabha Malviya, Sonali Sundram, 2025-09-12 The revolutionary capabilities of the use of graft copolymers of polysaccharides in tissue engineering and biomedical applications are explored in this new volume covering their production uses and future directions Graft copolymers are innovative materials that show enormous potential for combating many healthcare issues This book demonstrates an immense range of possible potentials presenting groundbreaking work on chitosan based graft copolymers as well as cutting edge research on graft polysaccharides as excipients for solid dosage forms The topics explore green synthesized nanobactericides and the use graft polymers to formulate nanoparticles highlighting the ways that nanotechnology and environmental consciousness are influencing this discipline Detailed discussions on improving biodegradability biocompatibility and the development of smart hydrogels are included as well as research on bone marrow regeneration applications demonstrating the significant role that graft copolymers play in enabling innovative biomedical solutions Exploring the vast potential that polysaccharide based graft copolymers have in biomedical and tissue engineering applications this volume will be a valuable resource for biomedical specialists clinical practitioners pharmaceutical scientists and medical experts Polymer Nanocomposites for Energy Applications T. Daniel Thangadurai, Manjubaashini Nandhakumar, Sabu Thomas, Ange Nzihou, 2022-09-13 Polymer Nanocomposites for Energy Applications Explore the science of polymer nanocomposites and their practical use in energy applications In Polymer Nanocomposites for Energy Applications a team of distinguished researchers delivers a comprehensive review of the synthesis and characterization of polymer nanocomposites as well as their applications in the field of energy Succinct and insightful the book explores the storage of electrical magnetic and thermal energy and hydrogen It also discusses energy generation by polymer based solar cells Finally the authors present a life cycle analysis of polymer nanocomposites for energy applications and provide four real world case studies where these materials have been successfully used Readers will also find Thorough introductions to the origins and synthesis of polymer materials In depth discussions of the characterization of polymeric materials including UV visible spectroscopy Comprehensive explorations of a wide variety of polymer material applications including in biotechnology and for soil remediation Fulsome presentations of polymer nanocomposites and their use in energy storage systems Perfect for materials and engineering scientists and polymer chemists Polymer Nanocomposites for Energy Applications will also earn a place in the libraries of professionals working in the chemical industry *Bioactive Delivery Systems for Lipophilic Nutraceuticals* Ming Miao, Long Chen, David McClements, 2023-06-26 There is growing interest in the

food supplements cosmetics and pharmaceutical industries in improving the healthiness of their products by incorporating lipophilic bioactive substances like oil soluble vitamins A D and E omega 3 fatty acids and nutraceuticals carotenoids curcuminoids and flavonoids However there are many challenges that need to be overcome due to their poor water solubility chemical stability and bioavailability For this reason there is interest in the development of effective encapsulation technologies to increase the efficacy of lipophilic bioactives This book reviews the encapsulation systems currently available for delivering lipophilic bioactives including their preparation functionality and application range including nanoemulsions emulsions Pickering emulsions HIPEs microgels organogels and liposomes Chapters 1 2 review the biological activity of delivery systems and lipophilic bioactives Chapters 3 5 describe the materials and preparation methods used to assemble delivery systems Chapters 6 17 focus on the formation and application of different kinds of delivery systems Chapter 18 discusses future trends in the development of bioactive delivery systems Edited and authored by world renowned scholars the book provides a state of the art overview of the design fabrication and utilization of delivery systems for bioactives that will be useful for academic government and industrial scientists in fields such as pharmaceuticals cosmetics agriculture chemical engineering nutrition and foods

Advanced 3D-Printed Systems and Nanosystems for Drug Delivery and Tissue Engineering Lisa C. du Toit, Pradeep Kumar, Yahya E. Choonara, Viness Pillay, 2020-03-08 Advanced 3D Printed Systems and Nanosystems for Drug Delivery and Tissue Engineering explores the intricacies of nanostructures and 3D printed systems in terms of their design as drug delivery or tissue engineering devices their further evaluations and diverse applications The book highlights the most recent advances in both nanosystems and 3D printed systems for both drug delivery and tissue engineering applications It discusses the convergence of biofabrication with nanotechnology constructing a directional customizable biomaterial arrangement for promoting tissue regeneration combined with the potential for controlled bioactive delivery These discussions provide a new viewpoint for both biomaterials scientists and pharmaceutical scientists Shows how nanotechnology and 3D printing are being used to create systems which are intelligent biomimetic and customizable to the patient Explores the current generation of nanostructured 3D printed medical devices Assesses the major challenges of using 3D printed nanosystems for the manufacture of new pharmaceuticals

Thermoelectric Polymers Inamuddin, Tariq Altalhi, Mohammad Abu Jafar Mazumder, 2024-03-15 The book presents recent developments in the field of thermoelectric polymers and polymer composites It focuses on the link between thermoelectric characteristics and material structure Topics covered include chemical composition microstructure dopants doping levels methods of fabrication thermoelectric effect thermoelectric device conversion efficiency and thermoelectric properties of conducting polymers Keywords Cage Compounds Calixarenes Conducting Polymers Cryptophanes Energy Conversion Half Heusler Compounds Skutterudite Compounds Hybrid Thermoelectric Materials Supramolecular Chemistry Thermoelectric Conversion Efficiency Thermoelectric Plastics

Nanocosmeceuticals Malay K. Das, 2022-08-23 Cosmetics are a fast growing segment in the

global personal care industry and the application of nanocosmeceuticals are on the rise Conventional cosmetics greatly lack specific delivery systems prolong effects and relatively heavy doses may be necessary One of the common complaints of consumers is rather short term activity of cosmetics especially in face care products Nanocosmeceuticals having more advanced nutrient delivery mechanisms carry more task specific nutrients to the skin deep where it can be metabolized and used to nourish cells It can help to increase the aesthetic appeal of a product influencing the purchase decision of a consumer Nanocosmeceuticals Innovation Application and Safety highlights the trends and applications of nanotechnology in cosmeceuticals for more advance and task specific nutrients delivery and long term effects of personal care products using liposome solid lipid nanoparticles nanostructured lipid carriers transferosomes niosomes phytosomes nanoemulsions silver nanoparticles chitin nanofibrils etc It also provides the detailed information on regulatory laws safety and marketing aspects of cosmeceuticals This book offers an indispensable guide for professors researchers students formulation chemists as well as formulation scientists in academia and industry beauticians and decision makers in consumer organizations First book on Nanocosmeceuticals Serves as a valuable resource of scientific innovations novel applications safety and regulations of Nanocosmeceuticals Offers an updated and highly structured reference material for students researchers professors formulation chemists and scientists

Functional Food Products and Sustainable Health Saghir Ahmad,Nasser Abdulatif Al-Shabib,2020-08-29 There is a growing global awareness of the link between good diet and health This fascinating book reviews various functional foods or nutraceuticals and the bio active compounds they contain in order to identify the role of bioactive compounds such as nisin micronutrients and hydrocolloids in the diet in overall human health It also provides up to date information on functional elements like antioxidants dietary fibres pre probiotics vitamins and mineral enriched foods in the human diet Consisting of fifteen chapters the book offers a systematic review of the key factors in the preparation of functional foods from selected sources and also describes the processing preservation and packaging of a range of functional food products This book is a valuable resource for students and researchers working in the field of food science food technology and nutrition as well as for industry experts

Assessment of Polymeric Materials for Biomedical Applications Vijay Chaudhary,Sumit Gupta,Pallav Gupta,Partha Pratim Das,2023-08-31 This book initiates with an introduction to polymeric materials followed by various classifications and properties of polymeric implant material including various development methods of polymeric materials and their characterization techniques An overview of various toxicology assessments of polymeric materials and polymeric materials for drug delivery system is also included Design and analysis of polymeric materials based components using Ansys software along with polymeric materials for additively manufactured artificial organs are also discussed Features Addresses assessment of polymeric materials in biomedical sciences including classification properties and development of polymeric implants Covers various topics in the field of tissue regeneration Discusses biocompatibility toxicity and biodegradation of polymeric materials Explores wide scale

characterization to study the effect of inclusion size on the mechanical properties of polymeric materials Reviews limitations and future directions on polymeric material with emphasis on biocompatibility This book is aimed at graduate students and researchers in biomaterials biomedical engineering composites and polymers **Nutritional Science and Technology**

Tejpal Dhewa, Anil Kumar Puniya, Anil Panghal, 2023-08-29 NUTRITIONAL SCIENCE AND TECHNOLOGY Food science is a rapidly changing and complicated subject This new series addresses the current state of the art concepts and technologies associated with the industry and will cover new ideas and emerging novel technologies and processes The book Nutritional Science and Technology Concept to Application in the series Bioprocessing in Food Science is an excellent resource for any scientist engineer student or other industry professional interested in this topic It covers a wide range of topics including human nutrition technological processes the health benefits of fermented foods and food safety concerns The content contributors and editors are experts in the field and their primary goal is to provide extensive knowledge about recent technologies in nutritional science and technology to students researchers and industry professionals Manufacturers are looking for new possibilities to occupy a growing share of the rapidly changing food market and this book will enable them to make informed decisions about adopting appropriate processing technology implementation economics and constraints of different technologies The book also provides insights on advances in nutritional science and technology for healthy and safe nutrition with maximum illustrations of how to ensure public health safety and adequate nutrition Overall this book is a comprehensive overview of this study area and a valuable resource for anyone interested in this field

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