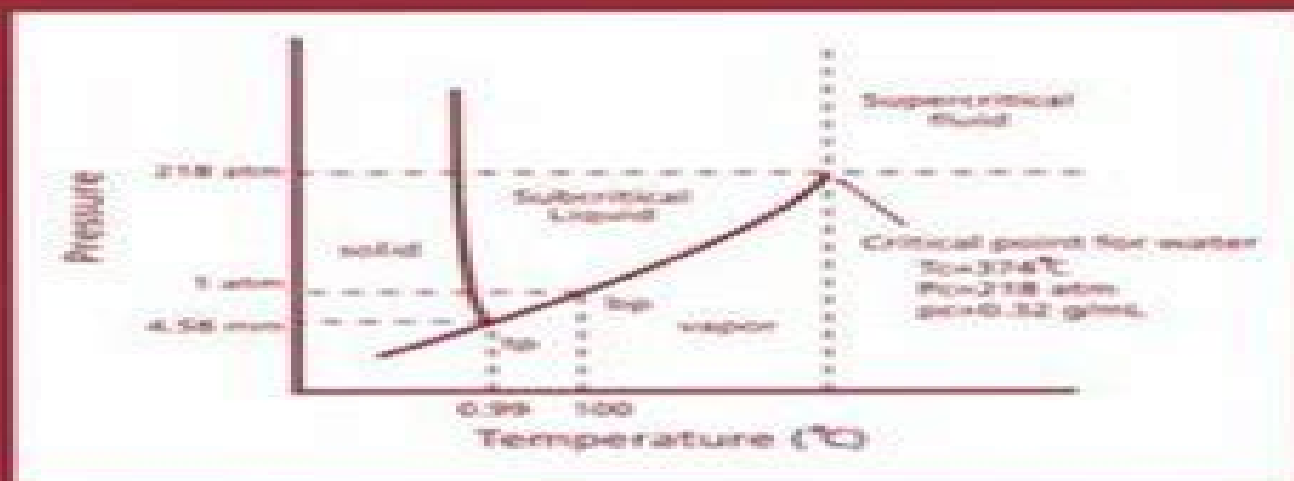


# Supercritical Fluid Technology for Drug Product Development



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**Peter York**  
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# Supercritical Fluid Technology For Drug Product Development

**Farid Chemat, Eugene Vorobiev**



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materials comprises a very large and complex global industry that utilises a diverse range of fibre types and creates a variety of textile products. As the great majority of such products are coloured predominantly using aqueous dyeing processes, the coloration of textiles is a large scale global business in which complex procedures are used to apply different types of dye to the various types of textile material. The development of such dyeing processes is the result of substantial research activity undertaken over many decades into the physico chemical aspects of dye adsorption and the establishment of dyeing theory which seeks to describe the mechanism by which dyes interact with textile fibres. **Physico Chemical Aspects of Textile Coloration** provides a comprehensive treatment of the physical chemistry involved in the dyeing of the major types of natural man made and synthetic fibres with the principal types of dye. The book covers fundamental aspects of the physical and chemical structure of both fibres and dyes together with the structure and properties of water in relation to dyeing, dyeing as an area of study as well as the terminology employed in dyeing technology and science, contemporary views of intermolecular forces and the nature of the interactions that can occur between dyes and fibres at a molecular level, fundamental principles involved in dyeing theory as represented by the thermodynamics and kinetics of dye sorption, detailed accounts of the mechanism of dyeing that applies to cotton and other cellulosic fibres, polyester, polyamide, wool, polyacrylonitrile and silk fibres, non aqueous dyeing as represented by the use of air organic solvents and supercritical CO<sub>2</sub> fluid as alternatives to water as application medium. The up to date text is supported by a large number of tables, figures and illustrations as well as footnotes and widespread use of references to published work. The book is essential reading for students, teachers, researchers and professionals involved in textile coloration.

**Medicinal Chemistry with Pharmaceutical Product Development** Debarshi Kar Mahapatra, Sanjay Kumar Bharti, 2019-02-04. This volume focuses on novel therapeutics and strategies for the development of pharmaceutical products keeping the drug molecule as the central component. It discusses current theoretical and practical aspects of pharmaceuticals for the discovery and development of novel therapeutics for health problems. Explaining the necessary features essential for pharmacological activity, it takes an interdisciplinary approach by including a unique combination of pharmacy chemistry and medicine along with clinical aspects. It takes into consideration the therapeutic regulations of the USP along with all the latest therapeutic guidelines put forward by WHO and the US Food and Drug Administration.

**Chiral Separation Methods for Pharmaceutical and Biotechnological Products** Satinder Ahuja, 2011-03-31. Discusses chiral separations and offers guidance for selecting the optimum method for desired results. Chiral separations represent the most intriguing and by some measures most difficult separations of chemical compounds. This book provides researchers and students an understanding of chiral separations and offers a convenient route to selecting the best separation method, saving considerable time and cost in product development. Considering chiral separations in the biotechnological and pharmaceutical industries as well as for food applications, Dr Ahuja provides insights into a broad range of topics. Opening with a broad overview of chiral separations, regulatory considerations in drug product

development and basic issues in method development the book Covers a variety of modern methods such as gas chromatography high performance liquid chromatography supercritical fluid chromatography and capillary electrophoresis Deals with the impact of chirality on the biological activity of small and large molecules Provides detailed information on useful chiral stationary phases CSPs for HPLC Includes handy information on selection of an appropriate CSP including mechanistic studies Offers strategies for fast method development with HPLC SFC and CE Discusses preparatory methods utilized in the pharmaceutical industry With in depth discussions of the current state of the field as well as suggestions to assist future developments Chiral Separation Methods for Pharmaceutical and Biotechnological Products is an essential text for laboratory investigators managers and regulators who are involved in chiral separations in the pharmaceutical industry as well as students preparing for careers in these fields

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Polymeric Drug Delivery Systems Glen S. Kwon,2005-04-12 Emphasizing four major classes of polymers for drug delivery water soluble polymers hydrogels biodegradable polymers and polymer assemblies this reference surveys efforts to adapt modify and tailor polymers for challenging molecules such as poorly water soluble compounds peptides proteins and plasmid DNA

*Green Food Processing Techniques* Farid Chemat,Eugene Vorobiev,2019-07-26 Green Food Processing Techniques Preservation Transformation and Extraction advances the ethics and practical objectives of Green Food Processing by offering a critical mass of research on a series of methodological and technological tools in innovative food processing techniques along with their role in promoting the sustainable food industry These techniques such as microwave ultrasound pulse electric field instant controlled pressure drop supercritical fluid processing extrusion lie on the frontier of food processing food chemistry and food microbiology and are thus presented with tools to make preservation transformation and extraction greener The Food Industry constantly needs to reshape and innovate itself in order to achieve the social financial and environmental demands of the 21st century Green Food Processing can respond to these challenges by enhancing shelf life and the nutritional quality of food products while at the same time reducing energy use and unit operations for processing eliminating wastes and byproducts reducing water use in harvesting washing and processing and using naturally derived ingredients Introduces the strategic concept of Green Food Processing to meet the challenges of the future of the food industry Presents innovative techniques for green food processing that can be used in academia and in industry in R D and processing Brings a multidisciplinary approach with significant contributions from eminent scientists who are actively working on Green Food Processing techniques

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**Inhalation Aerosols** Anthony J. Hickey,Heidi M. Mansour,2019-03-21 Inhalation aerosols continue to be the basis for successful lung therapy for several diseases with therapeutic strategies and the range of technology significantly evolving in recent years In response this third edition takes a new approach to reflect the close integration of technology with its application After briefly presenting the general considerations that apply to aerosol inhalation the central section of the book uses the focus on disease and therapeutic agents to illustrate the application of specific technologies The final integrated strategies section draws the major points from the applications for disease targets and drug products



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