

PHARMACEUTICAL ENGINEERING

Principles and Practice

Unit Operations

Abridged with PCI Syllabus of B.Pharmacy

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Dedicated to
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(Retired Professor & Principal of
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Former Director, Div's Laboratories, Hyderabad)

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Preface to the Third Edition

The book entitled 'Pharmaceutical Engineering' was introduced by us in 2001. Over 15 years, this book has been patronized by teachers and students alike. This encouraged us to revise periodically and the current edition is 3rd edition. The 2nd edition of pharmaceutical engineering was available in two volumes I and II, in tune with the syllabus prescribed by several universities in two semesters and on the lines of syllabus prescribed by ANCTE.

This edition is framed as per the prescribed syllabus of the Pharmacy Council of India (vide no. 6, 7 and 8 of Bachelor of Pharmacy (B.Pharm) course regulations 2014, which is applicable throughout India. The syllabus identified only 14 chapters and accordingly modified. These are: Industrial Processing & Basic Principles, Flow of Fluids, Size Reduction, Size Separation, Flow of Heat, Evaporation, Distillation, Drying, Mixing, Filtration, Centrifugation, Materials of Construction, Corrosion and Transportation of Solids.

The present attempt provides ample scope for expanding and thorough revision of the content area. Efforts were made to present the information in brief manner. In this edition, objectives are included at the beginning of the chapter and summary is appended at the end of each chapter. The format and importance of the earlier editions is maintained for the flexibility and readability. Comments are welcomed. Over the years, the experience accrued over these books made us have a fresh look at this book. Special emphasis was maintained on the lines of expectations.

1. Application of principles
2. A number of illustrations on the lines of concept mapping
3. Common type questions and answers
4. MCQs and key and question bank

Suggestions and criticism are welcome from teachers and students.

Subramanyam Text Pharmaceutical Engineering

B. S. Kesavan



Subramanyam Text Pharmaceutical Engineering:

Handbook of Metallonutraceuticals Yashwant Vishnupant Pathak, Jayant N. Lokhande, 2014-04-28 The nutritional and medicinal value of metals such as zinc calcium and iron has been known in traditional medicine for a long time Other metals such as silver and gold may also have therapeutic and health benefits Ancient medicines have long incorporated their use in the treatment of diseases and they have also more recently been explored for treatment in allopathic medicine birthing the concept of metallonutraceuticals The challenge of using metals in the human body is to find forms that are safe and effective Handbook of Metallonutraceuticals presents basic concepts related to the nutritional and therapeutic use of metals product development strategies and some ideas ready to be applied for condition specific metallonutraceuticals The book begins with an overview of the nutraceuticals field and the need for metallonutraceuticals It considers the roles of various metals in metabolism reviews the ethnopharmacology and ethnomedicine of metals and covers the characterization and possible properties of metallonutraceuticals It also examines bioavailability and drug interactions and therapeutic applications of nanometals including use as imaging agents in cancer diagnosis and treatment as antibacterials and antivirals in ocular disease and in neurodegenerative diseases The book explores the use of metals in traditional Chinese medicine potential applications for metalloenzymes the use of nanosilver in nutraceuticals and the potential of gold nanoparticles as a drug delivery system In addition it addresses intellectual property rights and regulatory considerations regarding metallonutraceuticals Using an interdisciplinary approach this user friendly text provides a knowledge base and inspiration for new research in this exciting field

Genetic Engineering News, 2005

Nanotechnology Based Advanced Medical Textiles and Biotextiles for Healthcare Prashansa Sharma, Devsuni Singh, Suman Pant, Vivek Dave, 2024-05-27 This book provides systematic coverage of research into medical and biotextiles based on nanomaterials as applicable in healthcare Divided into three sections it explains manufacturing properties types and recent developments in nanotechnology based medical textiles backed by case studies It includes a wide range of different clinical applications of biotextiles for healthcare including nanotextile scaffolds nano based artificial organs surgical sutures enzymatic assisted enhanced biotextiles tissue engineering or drug delivery system via nanofibers and so forth Features Provides strong and broad overview of medical applications in the field of nano and biotextiles Highlights different approaches recent research and emerging innovations Covers designing or developing nanomaterials based antiviral surface disinfectants with self cleaning property Reviews different applications of nano based medical textiles such as deodorizing or pH control clothing for hygiene maintenance Includes the real life applications based descriptive case studies that offer a diverse range of perspectives This book is aimed at researchers and graduate students in textile technology and engineering and medical textiles

Industry 4.0 Ravi Kant, Hema Gurung, 2023-11-10 This book presents a comprehensive discussion of the recent advances in Industry 4.0 manufacturing processes and intelligent techniques It will serve as an ideal reference text for graduate students and

academic researchers in the fields of manufacturing engineering industrial engineering mechanical engineering and production engineering This text introduces Industry 4.0 its evolution and essential pillars of Industry 4.0 including calibration metrology quality control robotics artificial intelligence and the Internet of Things It comprehensively covers important topics including the cold spray technique for additive manufacturing tool condition monitoring robotic manipulators metrology quality control and the Internet of Things in Industry 4.0 The book Discusses additive manufacturing and applications of lasers in advanced manufacturing Covers sensors actuators and calibration techniques for next generation industries Emphasizes the recycling of materials for sustainable manufacturing Explores latest advances in the Internet of Things robotics artificial intelligence and machine learning in view of Industry 4.0 Provides a conceptual framework of Industry 4.0 with the help of applications and case studies The text is primarily written for graduate students and academic researchers in the fields of manufacturing engineering industrial engineering mechanical engineering and production engineering

Crude Drugs of Unani Medicine Shaikh Ajij Ahmad Makbul, Shamim Irshad Azmi, Mohd. Sayeed Akhtar, 2025-10-14 This novel two volume compilation presents scientific knowledge pertaining to the utilization of crude drugs encompassing data on pharmacology and phytochemistry ethnomedical applications as well as the influence of adulterants and substitutes on human health for the prevention treatment and management of diseases Volume 1 Application and Utility for Human Welfare explores both the theoretical and practical aspects of potential medicinal plants and their bioactive compounds either used individually or in combination within drug formulations to combat a broad spectrum of chronic ailments such as skin diseases liver disorders musculoskeletal conditions reproductive system dysfunctions immunological aberrations and various other health issues Volume 2 Phytochemistry and Pharmacology Aspects provides a comprehensive understanding of the pharmacology phytochemistry and pharmacovigilance of medicinal plants utilized in the traditional Unani system of medicine It discusses the extensive range of possibilities presented by traditional medicine that enables the utilization of potential therapeutic agents in the form of standardized extracts in conjunction with other herbs or as isolated bioactive constituents These agents possess diverse properties such as antiparasitic antifungal antiviral antibacterial antioxidant and anticancer activities which can be utilized as drug treatments for various systemic disorders

Traditional Textiles of the Indian Subcontinent Akhtarul Islam Amjad, Britta Kalkreuter, Samrat Mukhopadhyay, 2025-07-09 This book explores the cultural history of traditional textiles and their contemporary relevance in sustainable practices It focuses on manufacturing processes technological integration and design fundamentals of traditional textiles The book also highlights the fusion of traditional textiles with contemporary fashion trends and the efforts made by designers to preserve and promote heritage textiles It also provides information on manufacturing designing and sustainable engineering in traditional textiles offering practical guidance and case studies for a comprehensive understanding This book serves as a valuable reference to a wide range of individuals who have an interest in traditional textiles including scholars

students engineers and manufacturers in the fields of textile engineering fashion design cultural studies and sustainable studies For scholars educators students and researchers it provides a comprehensive understanding of the relationship between traditional textiles sustainability and engineering serving as a foundation for further academic exploration Artisans and craftsmen can gain insights into sustainable practices and innovative design approaches empowering them to adapt their craft to contemporary demands while preserving cultural heritage Policymakers and NGOs can use the book to inform policy decisions and interventions related to cultural preservation sustainable development and the protection of traditional craftsmanship Textile industry professionals can acquire knowledge of sustainable engineering and design principles enabling them to integrate eco friendly practices into textile manufacturing and design processes Designers and fashion professionals can be inspired to incorporate traditional textile elements into contemporary fashion promoting cultural diversity and sustainability in the global fashion industry E-Commerce, Marketing, and Consumer Behavior in the AI Era

J. Obaid, Ahmed, Burlea-Schiopoiu, Adriana, Bhushan, Bharat, Bobur, Sobirov, Rajest, S. Suman, 2024-12-20 With the rapid growth of e commerce business activities have shifted to web platforms allowing users to browse products and read customer reviews to inform their purchases Customer reviews significantly influence buying decisions with users sharing experiences ratings and recommendations on products and services However fake reviews have become a challenges as spammers may post misleading information that can deceive potential buyers Detecting these fraudulent reviews is essential to maintaining trust in online platforms E Commerce Marketing and Consumer Behavior in the AI Era explores the complexities of fake review detection covering recent research detection methods and challenges in maintaining authentic online review systems It discusses technologies and best practices in understanding and combating fraudulent activities in the digital landscape Covering topics such as brand trust information technology and workforce optimization this book is an excellent resource for online platform operators digital marketing and branding professionals researchers academicians regulatory agencies and more *Books in Series* ,1985 Vols for 1980 issued in three parts Series Authors and Titles *Who's Who in Science and Engineering 2008-2009* Who's Who Marquis, Marquis Who's Who, 2007-12 Indian Science Abstracts ,1983

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