Pharmaceutics 1 Rm Mehta

This book presents the latest knowledge on both the physiological and the microbiological aspects of wound healing. Fresh insights into the process of cutaneous wound healing are described, which involves tissue regeneration and repair processes consisting of a sequence of molecular and cellular events. The management of infected wounds is then discussed in detail, covering the roles of traditional medicine practices, novel anti-infective formulations, non-antibiotic approaches, and probiotic bacteria. A section devoted to the interdisciplinary approach to wound care addresses topics including in vitro and in vivo research models, the development of advanced wound dressings, tissue engineering, and the potential applications of bioscaffolds. The authors are all leading researchers in the field. This book is an attempt to showcase current research status and future directions in the area of wound-healing research, which must be of interest to a large group of readers and researchers interested in this field. Now in its fourth edition, Principles of Tissue Engineering has been the definite resource in the field of tissue engineering for more than a decade. The fourth edition provides an update on this rapidly progressing field, combining the prerequisites for a general understanding of tissue growth and development, the tools and theoretical information needed to design tissues and organs, as well as a presentation by the world's experts of what is currently known about each specific organ system. As in previous editions, this book creates a comprehensive work that strikes a balance among the diversity of subjects that are related to tissue engineering, including biology, chemistry, material science, and engineering, among others, while also emphasizing those research areas that are likely to be of clinical value in the future. This

edition includes greatly expanded focus on stem cells, including induced pluripotent stem (iPS) cells, stem cell niches, and blood components from stem cells. This research has already produced applications in disease modeling, toxicity testing, drug development, and clinical therapies. This up-to-date coverage of stem cell biology and other emerging technologies –such as brain-machine interfaces for controlling bionics and neuroprostheses– is complemented by a series of new and updated chapters on recent clinical experience in applying tissue engineering, as well as a new section on the application of tissue-engineering techniques for food production. The result is a comprehensive textbook that will be useful to students and experts alike. Includes new chapters on biomaterial-protein interactions, nanocomposite and three-dimensional scaffolds, skin substitutes, spinal cord, vision enhancement, and heart valves Offers expanded coverage of adult and embryonic stem cells of the cardiovascular, hematopoietic, musculoskeletal, nervous, and other organ systems Full-color presentation throughout

Serves as a complete textbook (including practicals) for second year students of pharmacy. The main objective of the book is to explain the fundamentals of pharmaceutics in the simplest possible language. It keeps the balance between the basic essentials and advanced areas of knowledge, apart from the usual topics. It is a thoughtful compilation as a backbone of pharmaceutics. The book covers a wide range of areas in brief and contains a comprehensive description. The text deals with not only the basic concepts but also emphasizes technical and practical aspects of the subject. The most distinguishing features of the book are ample long answer and short answer type questions, objective questions and experiments in pharmaceutics, which are highly useful to the readers.

The second edition of the book continues to offer a range of pedagogical features maintaining the balanced approach of the text. The attempts have been made to further strengthen the conceptual understanding by introducing more ideas and a number of solved problems. Comprehensive in approach, this text presents a rigorous treatment of organic chemistry to enable undergraduate students to learn the subject in a clear, direct, easily understandable and logical manner. Presented in a new and exciting way, the goal of this book is to make the study of organic chemistry as stimulating, interesting, and relevant as possible. Beginning with the structures and properties of molecules, IUPAC nomenclature, stereochemistry, and mechanisms of organic reactions, proceeding next to detailed treatment of chemistry of hydrocarbons and functional groups, then to organometallic compounds and oxidation–reduction reactions, and ending with a study of selected topics (such as heterocyclic compounds, carbohydrates, amino acids, peptides and proteins, drugs and pesticides, dyes, synthetic polymers and spectroscopy), the book narrates a cohesive story about organic chemistry. Transitions between topics are smooth, explanations are lucid, and tie-ins to earlier material are frequent to maintain continuity. The book contains over 500 solved problems from simple to really challenging ones with suitable explanations. In addition, over 275 examples and solved problems on IUPAC nomenclature, with varying levels of difficulty, are included. About Some Key Features of the Book • EXPLORE MORE: Four sets of solved problems provide in-depth knowledge and enhanced understanding of some important aspects of organic chemistry. • MINI ESSAYS: Three small essays present interesting write-ups to provide students with introductory knowledge of chemistry of natural products such as lipids, terpenes, alkaloids, steroids along with nucleic acids and enzymes. • NOTABILIA: Twenty-two

‘notabilia boxes’ interspersed throughout the text highlight the key aspects of related topics, varying from concepts of chemistry to the chemistry related to day-to-day life. • STRUCTURES AND MECHANISMS NOT IN ORDER: Cites examples of common errors made by students while drawing structural formulae and displaying arrows in reaction mechanisms and helps them to improve on language of organic chemistry by teaching appropriate drawings and their significance. • GLOSSARY: Includes ‘Name reactions’, ‘Reagents’, and some important terms for quick revision by students. Clearly written and logically organized, the authors have endeavoured to make this complex and important branch of science as easy as possible for students to learn from and for teachers to teach from.

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Frank discussions of opportunities and challenges point the way to new, more effective drug delivery systems Interest in nanomedicine has grown tremendously, fueled by the expectation that continued research will lead to the safe, efficient, and cost-effective delivery of drugs or imaging agents to human tissues and organs. The field, however, has faced several challenges attempting to translate novel ideas into clinical benefits. With contributions from an international team of leading nanomedicine researchers, this book provides a practical assessment of the possibilities and the challenges of modern nanomedicine that will enable the development of clinically effective nanoparticulate drug delivery products and systems. Nanoparticulate Drug Delivery Systems focuses on the rationales and preclinical evaluation of new nanoparticulate drug carriers that

have yet to be thoroughly reviewed in the literature. The first chapter sets the stage with a general overview of targeted nanomedicine. The book then explores new and promising nanoparticulate drug delivery systems, including: Lipid nanoparticles for the delivery of nucleic acids Multifunctional dendritic nanocarriers Polymer drug nanoconjugates Next, the book presents new opportunities and challenges for nanoparticulate drug delivery systems, including: Clearance of nanoparticles during circulation Drug delivery strategies for combatting multiple drug resistance Toxicological assessment of nanomedicine Chapters offer state-of-the-technology reviews with extensive references to facilitate further investigation. Moreover, each chapter concludes with an expert assessment of remaining challenges, pointing the way to solutions and new avenues of research. With its frank discussions of opportunities and challenges, Nanoparticulate Drug Delivery Systems sets a solid foundation for new research leading to the discovery and development of better nanomedicines.

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This is a thoughtful compilation designed and aimed to serve as a core text for both diploma and degree level students of pharmacy (D Pharm and B Pharm). The book will also be of interest to pharmacists, pharmacy technocrats and teachers in pharmacy colleges. It covers both theory and practical.

Issues for 1919-47 include Who's who in India; 1948, Who's who in India and Pakistan.

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As a paradigm for the future, micro-scale technology seeks to fuse revolutionary concepts in science and engineering and then translate it into reality. Nanotechnology is an interdisciplinary field that aims to connect what is seen with the naked eye and what is unseen on the molecular level. The Handbook of Research on Diverse Applications of Nanotechnology in Biomedicine, Chemistry, and Engineering examines the strengths and future potential of micro-scale technologies in a variety of industries. Highlighting the benefits, shortcomings, and emerging perspectives in the application of nano-scale technologies, this book is a comprehensive reference source for synthetic chemists, engineers, graduate students, and researchers with an interest in the multidisciplinary applications, as well as the ongoing research in the field.

This book consists of 4 volumes containing about 70 chapters covering all the major aspects of the growing area of nanomedicine. Leading scientists from 15 countries cover all major areas of nanobiomedical research materials for nanomedicine, application of nanomedicine in therapy of various diseases, use of nanomedicines for diagnostic purposes, technology of nanomedicines, and new trends in nanobiomedical research. This is the first detailed handbook specifically addressing various aspects of nanobiomedicine. Readers are treated to cutting-edge research and the newest data from leading researchers in this area.Contents: "Materials for Nanomedicine: "Liposomal Nanomedicines "(Amr S Abu Lila, Tatsuhiro Ishida and Theresa M

Allen)"Solid Lipid Nanoparticles for Biomedical Applications "(Karsten Mader)"Micellar Nanopreparations for Medicine "(Rupa Sawant and Aditi Jhaveri)"Nanoemulsions in Medicine "(William B Tucker and Sandro Mecozzi)"Drug Nanocrystals and Nanosuspensions in Medicine "(Leena Peltonen, Jouni Hirvonen and Timo Laaksonen)"Polymeric Nanosystems for Integrated Image-Guided Cancer Therapy "(Amit Singh, Arun K Iyer and Mansoor M Amiji)"Polysaccharide-Based Nanocarriers for Drug Delivery "(Carmen Teijeiro, Adam McGlone, Noemi Csaba, Marcos Garcia-Fuentes and Maria J Alonso)"Dendrimers for Biomedical Applications "(Lisa M Kaminskas, Victoria M McLeod, Seth A Jones, Ben J Boyd and Christopher J H Porter)"Layer-by-Layer Nanopreparations for Medicine Smart Polyelectrolyte Multilayer Capsules and Coatings "(Rawil F Fakhrullin, Gleb B Sukhorukov and Yuri M Lvov)"Inorganic Nanopreparations for Nanomedicine "(James Ramos and Kaushal Rege)"Silica-Based Nanoparticles for Biomedical Imaging and Drug Delivery Applications "(Stephanie A Kramer and Wenbin Lin)"Carbon Nanotubes in Biomedical Applications "(Krunal K Mehta, Elena E Paskaleva, Jonathan S Dordick and Ravi S Kane)"Core-Shell Nanoparticles for Biomedical Applications "(Mahmoud Elsabahy and Karen L Wooley)"Structure Activity Relationships for Tumor-Targeting Gold Nanoparticles "(Erik C Dreaden, Ivan H El-Sayed and Mostafa A El-Sayed)"Silver Nanoparticles as Novel Antibacterial and Antiviral Agents "(Stefania Galdiero, Annarita Falanga, Marco Cantisani, Avinash Ingle, Massimiliano Galdiero and Mahendra

Rai)"Magnetic Nanoparticles for Drug Delivery "(Rainer Tietze, Harald Unterweger and Christoph Alexiou)"Quantum Dots as a Platform Nanomaterial for Biomedical Applications "(Eleonora Petryayeva, Roza Bidshahri, Kate Liu, Charles A Haynes, Igor L Medintz, and W Russ Algar)""Applications in Therapy: "The Application of Nanomedicine to Cardiovascular Diseases "(Kevin M Bardon, Olivier Kister and Jason R McCarthy)"Nanomedicines for Restenosis Therapy "(J E Tengood, I Fishbein, R J Levy and M Chorny)"Nanopreparations for Cancer Treatment and Diagnostics "(Jayant Khandare, Shashwat Banerjee and Tamara Minko)"Nanoparticles in the Gastrointestinal Tract "(Abraham Rubinstein)"Nanopreparations for Oral Administration "(D Hubbard, D J Brayden and H Ghandehari)"Nanopreparations for Central Nervous System Diseases "(Leyuan Xu and Hu Yang)"Nanoparticles for Dermal and Transdermal Delivery: Permeation Pathways and Applications "(Marianna Foldvari, Marjan Gharagozloo and Christine Li)"Lysosomes and Nanotherapeutics: Diseases, Treatments, and Side Effects "(Rachel L Manthe and Silvia Muro)"Nanostructured Biomaterials for Inhibiting Cancer Cell Functions "(Lijuan Zhang and Thomas J Webster)"Nanomedicine in Otorhinolaryngology"

Approximately 4000 references to literature (primarily journal articles) dealing with phytochemistry, pharmacognosy, and pharmacology of Indian medicinal plants. Entries arranged under scientific plant names. Entry gives bibliographical information. 4 appendixes of general references, journal abbreviations, Sanskrit and popular plant

names with Latin equivalents, and an addendum. No index.

This unique book is the only one to discuss various new techniques developed to enhance the application of nanoparticulate drug delivery systems using surface modification of nanoparticles. The understanding of the surface characteristics nano-particles is growing significantly with the advent of new analytical techniques. Polymer chemistry is contributing to the development of many new versatile polymers which have abilities to accommodate many different, very reactive chemical groups, and can be used as a diagnostic tool, for better targeting, for more effective therapeutic results as well as for reducing the toxic and side effects of the drugs. Surface modification of such polymeric nanoparticles has been found by many scientists to enhance the application of nanoparticles and also allows the nano particles to carry specific drug molecule and disease /tumor specific antibodies which refine and improve drug delivery. Surface Modification of Nanoparticles for Targeted Drug Delivery is a collection essential information with various applications of surface modification of nanoparticles and their disease specific applications for therapeutic purposes.

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Aqueous solubility is one of the major challenges in the early stages of drug discovery. One of the most common and effective methods for enhancing solubility is the addition of an organic solvent to the aqueous solution. Along with an introduction to cosolvency models, the Handbook of Solubility Data for Pharmaceuticals provides an extensive

database of solubility for pharmaceuticals in mono solvents and binary solvents. Aqueous solubility data can be found in the Handbook of Aqueous Solubility Data by Samuel Yalkowsky and Yan He. Visit www.crcpress.com for more information. In addition to the experimental efforts to measure the solubility of drugs in mono and mixed solvents, this book discusses the advantages and limitations of a number of mathematical models used to predict the solubility in mono or mixed solvent systems. It covers the pharmaceutical cosolvents and other organic solvents that are used in syntheses, separations, and other pharmaceutical processes. The solutes featured include the available data for official drugs, drug candidates, precursors of drugs, metabolites, and degradation products of pharmaceuticals. The author also presents the solubilities of amino acids since they play an important role in peptide drug properties. Collecting drug solubilities in various cosolvents, this time-saving handbook includes the mixtures and model constants needed to predict undetermined solubilities. It describes mathematical models that enable data to be derived and provides estimates on how drugs are likely to behave in a given cosolvent. A software program and associated user manual are available on the author's website.

The 3rd edition of this successful textbook continues to build on the strengths that were recognized by a 2008 Textbook Excellence Award from the Text and Academic Authors Association (TAA). Materials Chemistry addresses inorganic-, organic-, and nano-based materials from a structure vs. property treatment, providing a suitable breadth

and depth coverage of the rapidly evolving materials field — in a concise format. The 3rd edition offers significant updates throughout, with expanded sections on sustainability, energy storage, metal-organic frameworks, solid electrolytes, solvothermal/microwave syntheses, integrated circuits, and nanotoxicity. Most appropriate for Junior/Senior undergraduate students, as well as first-year graduate students in chemistry, physics, or engineering fields, Materials Chemistry may also serve as a valuable reference to industrial researchers. Each chapter concludes with a section that describes important materials applications, and an updated list of thought-provoking questions.

"Completely revised and expanded throughout. Presents a comprehensive integrated, sequenced approach to drug dosage formulation, design, and evaluation. Indentifies the pharmacodynamic and physicochemical factors influencing drug action through various routes of administration."

Dendrimers, hyperbranched macromolecules, emerged just few decades ago but show promising potential as drug delivery nanocarriers, theranostic agents and gene vectors; in the pharmaceutical research and innovation area as well as in other healthcare applications. Although tremendous advancements have been made in dendrimer chemistry and their applications since their emergence, the synthesis, development and design of pure and safe dendrimer-based products have been a major challenge in this area. This book, edited by well-known researchers in the area of nanomaterials and drug-based drug delivery applications, exhaustively covers the nanotechnological

aspects, concepts, properties, characterisation, application, biofate and regulatory aspects of dendrimers. It includes sixteen vivid chapters by renowned formulators, researchers and academicians from all over the world, highlighting their specialised areas of interest in the fields of chemistry, biology, pharmacy and nanomedicine. Features: • Highlights dendrimers' advancements in nanomedicine in the development of safe healthcare and biotechnological products • Covers physicochemical aspects, biofate, drug delivery aspects and gene therapy using dendrimers • Covers biomedical application of dendrimers in the field of biological sciences • Gives examples of dendrimer–guest interaction chemistry Dendrimers in Nanomedicine: Concept, Theory and Regulatory Perspectives provides the comprehensive overview of the latest research efforts in designing, optimising, development and scale-up of dendrimer-mediated delivery systems. It analyses the key challenges of synthesis, design, molecular modelling, fundamental concepts, drug delivery aspects, analytical tools and biological fate as well as regulatory consideration to the practical use of dendrimer application. Dr. Neelesh Kumar Mehra Assistant Professor of Pharmaceutics in the Department of Pharmaceutics at the National Institute of Pharmaceutical Education & Research (NIPER), Hyderabad, India. He has authored more than sixty peer-reviewed publications in highly reputed international journals, as well as book chapters and contributions on two patents. Dr. Mehra has 11 years of rich research and teaching experience in the formulation and development of complex, innovative

biopharmaceutical products including micro- and nanotechnologies for regulated markets. Dr. Keerti Jain Assistant Professor of Pharmaceutics in the Department of Pharmaceutics, NIPER, Raebareli, India. For more than 10 years, she has been actively engaged in formulation and development of nanomedicines. Dr. Jain has supervised masters and doctoral pharmaceutics students in their research works which have been published in high quality, good impact factor journals. She has also authored more than 60 international manuscripts in peer reviewed high impact journals. In 2019, she was awarded the prestigious ICMR-Amir Shakuntala Award.

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This book focuses on advances in genetics, molecular medicine, biotechnologies, and behavioural sciences that have an impact on primary, secondary and tertiary cancer prevention. It includes research on: (a)Basic mechanisms of neoplastic diseases leading to the identification of molecular pathways that can be employed as targets for cancer prevention; (b)Descriptive, analytical, and molecular epidemiology with emphasis on developing biomarkers of cancer risk assessment and response to cancer prevention; (c)Laboratory and clinical procedures for prognostic evaluation of malignant tumour transformation, progression and response to treatment with cancer preventive agents; (d)Discoveries of natural substances and synthetic agents that have promising cancer preventive potential and elucidating their mechanistic action; (e)Development and assessment of cancer preventive approaches that have potential for being

translated into the clinic; (f)Cancer prevention pre-clinical studies and clinical trials; (g)Patient management and education, management of curable lesions, education and lifestyle modification and the role of behavioural factors in cancer etiology and prevention.

Drug Delivery Aspects: Expectations and Realities of Multifunctional Drug Delivery Systems examines the fabrication, optimization, and scale-up of nano and micro carriers. Various aspects like conversion of micro-nano particles into solid dosage form, large scale industry manufacturing challenges of nanocarriers, regulatory considerations on drug device combinations are featured in this volume. Written by a diverse range of international researchers from industry and academia, the chapters examine specific aspects of characterization and manufacturing for pharmaceutical applications as well as regulatory and policy aspects. The Multifunctional Drug Delivery Systems books provide a platform to discuss opportunities and challenges in development of micro-nanomedicine and other drug delivery systems, review industrial manufacturing challenges, discuss current and future market trends, facilitate the insight sharing within various expertise area, and establish collaborations between academic scientists, industrial and clinical researchers. This book connects formulation scientists, regulatory experts, engineers, clinical experts and regulatory stake holders. The wide scope of the book ensures it is a valuable reference resource for researchers in both academia and the pharmaceutical industry who want to learn more about the

status of drug delivery systems.

Discusses the study of inorganic drugs based on pharmacological classification, laying emphasis on knowledge of chemical properties, to help readers understand the rationale behind the tests for identity as well as storage conditions.It is divided into two sections. Section A discusses the theory: various properties and uses of inorganic compounds, major intra- and extracellular electrolytes, radiopharmaceuticals and contrast media, inorganic official compounds of iron, iodine and calcium, quality control of drugs and pharmaceuticals, and identification tests for cations and anions. Section B covers practical tests. The book will serve as a useful text for students at the diploma level in pharmacy as it covers all the topics and bare essentials required under the syllabus.

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