

Article

Release Kinetics Model Fitting of Drugs with Different Structures from Viscose Fabric

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Abstract: (1) Background: It is simpler and more environmentally friendly to use supercritical CO₂ fluid technology to process skincare viscose fabrics. Therefore, it is significant to study the release properties of drug-loaded viscose fabrics to choose suitable skincare drugs. In this work, the release kinetics model fittings were investigated in order to clarify the release mechanism and provide a theoretical basis for processing skincare viscose fabrics with supercritical CO₂ fluid. (2) Methods: Nine kinds of drugs with different substituent groups, different molecular weights, and different substitution positions were loaded onto viscose fabrics using supercritical CO₂ fluid. Then, the drug-loaded viscose fabrics were placed in an ethanol medium, and the release curves were drawn. Finally, the release kinetics were fitted using zero-order release kinetics, the first-order kinetics model, the Higuchi model, and the Korsmeyer–Peppas model. (3) Results: The Korsmeyer–Peppas model was the best-fitting model for all the drugs. Drugs with different substituent groups were released via a non-Fickian diffusion mechanism. On the contrary, other drugs were released via a Fickian diffusion mechanism. (4) Conclusions: In view of the release kinetics, it was found that the viscose fabric can swell when a drug with a higher solubility parameter is loaded onto it using supercritical CO₂ fluid, and the release rate is also slower.

Keywords: release kinetics model; drug-loaded viscose fabric; supercritical CO₂ fluid; Fickian diffusion



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1. Introduction

Viscose fiber is the main variety of regenerated fiber, and its raw material comes from natural cellulose with the largest reserves and the most sustainable development on Earth [1]. Viscose fiber has been widely used in underwear products because of its moisture absorption, air permeability, antistatic, good color fastness, and spinning properties. However, with the development of society, people have a tendency to choose functional fabrics, such as antimicrobial [2], personal cooling [3], or waterproof [4] ones. Therefore, if viscose fabric is endowed with skincare functionality such as antioxidant, skin whitening, moisturizing, etc., its additional value and consumer market will improve significantly in the field of underwear.

Some methods have been utilized to fabricate skincare textiles including blended spinning technology [5] and microencapsulation [6]. A large quantity of drugs (2–10 wt%) can be mixed into the fiber through blended spinning, but it is not suitable for thermosensitive drugs [7]. In addition, it leads to wastage of the drug because most of the drug is distributed in the interior of the fiber and cannot be released, and the properties of the fiber can be affected by the drugs. Microencapsulation can not only protect drugs from the environmental impact but also slow down the release rate of drugs such as vitamins [8] and essential oils [9]. However, the preparation process is complex and requires the usage of organic solvents [10,11]. When the microcapsule is loaded on the fabric, it can easily affect the touch feeling because of the joint of the cross-linking agent.

By contrast, supercritical CO₂ fluid technology is a simpler, green, and efficient finishing technology that can dissolve or carry drugs into the surface and interior of the fabric,

Drugs And Fitting In

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Drugs and Fitting In George Glass, 1997-12-15 Discusses teen culture in America and how drug use has become part of that culture offers guidance for teens on how to say no to drugs and still fit in

Artificial Intelligence and Machine Learning in Drug Design and Development Abhirup Khanna, May El Barachi, Sapna Jain, Manoj Kumar, Anand Nayyar, 2024-07-18 The book is a comprehensive guide that explores the use of artificial intelligence and machine learning in drug discovery and development covering a range of topics including the use of molecular modeling docking identifying targets selecting compounds and optimizing drugs The intersection of Artificial Intelligence AI and Machine Learning ML within the field of drug design and development represents a pivotal moment in the history of healthcare and pharmaceuticals The remarkable synergy between cutting edge technology and the life sciences has ushered in a new era of possibilities offering unprecedented opportunities formidable challenges and a tantalizing glimpse into the future of medicine AI can be applied to all the key areas of the pharmaceutical industry such as drug discovery and development drug repurposing and improving productivity within a short period Contemporary methods have shown promising results in facilitating the discovery of drugs to target different diseases Moreover AI helps in predicting the efficacy and safety of molecules and gives researchers a much broader chemical pallet for the selection of the best molecules for drug testing and delivery In this context drug repurposing is another important topic where AI can have a substantial impact With the vast amount of clinical and pharmaceutical data available to date AI algorithms find suitable drugs that can be repurposed for alternative use in medicine This book is a comprehensive exploration of this dynamic and rapidly evolving field In an era where precision and efficiency are paramount in drug discovery AI and ML have emerged as transformative tools reshaping the way we identify design and develop pharmaceuticals This book is a testament to the profound impact these technologies have had and will continue to have on the pharmaceutical industry healthcare and ultimately patient well being The editors of this volume have assembled a distinguished group of experts researchers and thought leaders from both the AI ML and pharmaceutical domains Their collective knowledge and insights illuminate the multifaceted landscape of AI and ML in drug design and development offering a roadmap for navigating its complexities and harnessing its potential In each section readers will find a rich tapestry of knowledge case studies and expert opinions providing a 360 degree view of AI and ML s role in drug design and development Whether you are a researcher scientist industry professional policymaker or simply curious about the future of medicine this book offers 19 state of the art chapters providing valuable insights and a compass to navigate the exciting journey ahead Audience The book is a valuable resource for a wide range of professionals in the pharmaceutical and allied industries including researchers scientists engineers and laboratory workers in the field of drug discovery and development who want to learn about the latest techniques in machine learning and AI as well as information technology professionals who are interested in the application of machine learning and artificial intelligence in drug

development **Drugs and medicines of North America** John Uri Lloyd,1885 Molecular Modeling and Docking Techniques for Drug Discovery and Design Bhat, Ajmal Rashid,Ahmed, Sumeer,Kawsar, S. M. Abe,2025-02-05 In the realm of pharmaceutical research the challenge of efficiently discovering and designing new drugs to combat diseases is ever present Traditional approaches to drug discovery often rely on time consuming and costly experimental methods leading to lengthy development timelines and high failure rates This problem is exacerbated by the complexity of molecular interactions and the vast chemical space to explore As a result there is a pressing need for innovative solutions that can streamline the drug discovery process and improve its success rate Molecular Modeling and Docking Techniques for Drug Discovery and Design addresses this critical challenge by offering a comprehensive guide to advanced computational methods in pharmaceutical research Edited by leading experts in the field the book provides insights into molecular modeling docking and other computational approaches that can significantly accelerate the drug discovery process By leveraging computational tools and software researchers can simulate molecular interactions predict drug efficacy and optimize chemical structures with greater speed and accuracy than traditional experimental methods **Pharmacology for Nurses** Blaine T. Smith,Diane F. Pacitti,2018-11-30 Pharmacology for Nurses Second Edition teaches undergraduate nursing students the basic concepts of pharmacology Views of Area Opinion Leaders about Drug Abuse in the Washington, DC, Metropolitan Area ,1993

Bill's Clinical Pharmacology and Therapeutics for Veterinary Technicians - E-Book Melinda Anderson,2023-04-11 Selected for Doody s Core Titles 2024 in Veterinary Nursing Technology Build the skills you need to use drugs safely and avoid potential problems Trusted by vet techs for 30 years Bill s Clinical Pharmacology and Therapeutics for Veterinary Technicians helps you understand the principles and practice of pharmacology in treating different animal species The text explains how drugs work how they are administered and how to calculate drug dosages Covering drugs by body system the book also explains possible abuses mistakes and how things can go wrong when therapeutic protocols are not properly implemented From veterinary pharmacist and educator Melinda Mindy Anderson this fifth edition helps you provide better care for your patients and better education for their owners Content on basic pharmacology includes topics such as safety terminology pharmacy procedures drug handling including the latest OSHA requirements dosage calculations and pharmacokinetics Chapter outlines learning objectives and key terms are provided at the beginning of each chapter introducing you to the complex principles of pharmacology and guiding your study Clear explanations of drugs help you understand the how and why behind drugs their actions their mechanisms and adverse effects Myths and Misconceptions Ask Dr Bill and You Need to Know boxes spotlight key issues concepts and skills Clinical applications link pharmacologic concepts to real life situations Review questions and critical thinking questions are included at the end of every chapter to help readers test their comprehension Test questions and online quizzes enable self assessment and help you prepare for classroom and certification exams NEW Veterinary Feed Directives section reflects the newest FDA guidelines on medicated

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Drug Bioavailability Han van de Waterbeemd, Hans Lennernäs, Per Artursson, 2006-03-06 The peroral application swallowing of a medicine means that the body must first resorb the active substance before it can begin to take effect The efficacy of drug uptake depends on the one hand on the chemical characteristics of the active substance above all on its solubility and membrane permeability On the other hand it is determined by the organism's ability to absorb pharmaceuticals by way of specific transport proteins or to excrete them Since many pharmacologically active substances are poorly suited for oral intake a decisive criterion for the efficacy of a medicine is its so called bioavailability Written by an international team from academia and the pharmaceutical industry this book covers all aspects of the oral bioavailability of medicines The focus is placed on methods for determining the parameters relevant to bioavailability These range from modern physicochemical techniques via biological studies in vitro and in vivo right up to computer aided predictions The authors specifically address possibilities for optimizing bioavailability during the early screening stage for the active substance Its clear structure and comprehensive coverage make this book equally suitable for researchers and lecturers in industry and teaching

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Communicating about Alcohol and Other Drugs, 1990

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Drug-impaired Professionals Robert H. Coombs, 1997 Drawing on more than 120 personal interviews with addicted physicians dentists nurses pharmacists attorneys and airline pilots and those who treat them Professor of Biobehavioral Sciences Robert Coombs gives us a startling picture of

drug abuse among pedestal professionals unveiling a problem that affects nearly every family in America

The Anthropology of Drugs Neil Carrier, Lisa L. Gezon, 2023-07-28 From khat to kava to ketamine drugs are constitutive parts of cultures identities economies and livelihoods This much needed book is a clear introduction to the anthropology of drugs providing a cutting edge and accessible overview of the topic The authors examine and assess the following key topics How drugs feature in anthropology and the work of anthropologists and the general role of drugs in society Comparison between biochemical and pharmacological approaches to drugs and bio socio cultural models of understanding drugs Evolutionary origins of psychotropic drug sensitivity and archaeological evidence for the spread of psychoactive substances in pre history Drugs in spiritual and religions contexts considering their role in altered states of consciousness divination and healing Stimulant drugs and the ambivalence with which they are treated in society Addiction and dependency Drug economies livelihoods and the production and distribution segments of drug commodity chains Drug policies and drug wars Drugs race and gender The future of the study of drugs and anthropological professional engagements with solving drug problems With the inclusion of chapter summaries and many examples further reading and case studies including drug tourism drug industries in the Philippines and Mexico Afghanistan and the Golden Triangle and the opioid crisis in North America The Anthropology of Drugs is an ideal introduction for those coming to the topic for the first time and also for those working in the professional and health sectors It will be of interest to students of anthropology and to those in related disciplines including sociology psychology health studies and religion

Communicating about Alcohol and Other Drugs Elaine Bratic Arkin, 1990 Summarizes knowledge about the characteristics knowledge attitudes and practices of certain audiences of children who are at a higher risk for drug and alcohol abuse Also discusses channels sources materials and messages and offers ideas for reaching these groups Chapters cover the general category of youth from high risk environments looking specifically at Black and Hispanic Latino children and influences on them such as parents and primary care physicians Includes case studies messages and materials review process and intermediary organizations

Chemistry and Medicines James Ralph Hanson, 2006 Providing a general introduction to this fascinating subject this book is aimed at those studying advanced undergraduate and postgraduate courses in medicinal chemistry

Drugs Andrew D. Chapman, 2023-12-13 Within these pages lies a profound exploration of one of humanity s most compelling and complex subjects Drugs From ancient healing practices to the cutting edge laboratories of today from the heights of spiritual transcendence to the depths of addiction Drugs offers a comprehensive examination of the substances that have both fascinated and troubled mankind Discover the multifaceted relationships that humans have formed with drugs throughout history Delve into the depths of the human psyche explore the societal impacts and confront the ethical and legal mazes that surround drug use This book navigates through the various dimensions of narcotics stimulants depressants hallucinogens and more revealing the intricate interplay between culture psychology physiology and law Drugs does not advocate for a particular stance but rather presents

a tapestry of perspectives inviting readers to reflect on the profound questions and challenges that these substances pose in our personal lives and societies With meticulous research and engaging narrative it confronts the stigma unravels the controversies and shines a light on the potential futures shaped by policy and innovation This is not just a book about drugs it is a discourse on humanity's quest for meaning solace and understanding in the face of life's greatest mysteries

AUTISM SPECTRUM DISORDER ACROSS THE LIFESPAN Part II, An Issue of Psychiatric Clinics of North America Robert W. Wisner, Carlson, Scott R. Pekrul, Thomas Flis, Robert Schloesser, 2021-02-02 This issue of Psychiatric Clinics guest edited by Drs Robert Wisner, Carlson, Thomas Flis, Scott Pekrul and Robert Schloesser will discuss a number of important topics addressing Autism Disorders Across the lifespan This issue is one of four each year selected by our series consulting editor Dr Harsh Trivedi of Sheppard Pratt Health System Part I of this issue published previously Articles in this issue include Bipolar Disorder and Psychosis in Autism Catatonia in Patients with Autism Spectrum Disorder Use of Electroconvulsive Therapy in Autism Autism Spectrum Disorder and Substance Use Disorder A Dual Diagnosis Hiding in Plain Sight Seizures and Epilepsy in Autism Spectrum Disorder Gastrointestinal Issues and Autism Spectrum Disorder The Impact of Applied Behavior Analysis to Address Mealtime Behaviors of Concern Among Individuals with Autism Spectrum Disorder Assessment and Treatment of Emotion Regulation Impairment in Autism Spectrum Disorder Across the Life Span Current State of the Science and Future Directions Sexuality and Gender Issues in Individuals with Autism Spectrum Disorder and Facial Expression Production and Recognition in Autism Spectrum Disorders A Shifting Landscape

Human Drug Metabolism Michael D. Coleman, 2010-03-30 Human Drug Metabolism An Introduction Second Edition provides an accessible introduction to the subject and will be particularly invaluable to those who already have some understanding of the life sciences Completely revised and updated throughout the new edition focuses only on essential chemical detail and includes patient case histories to illustrate the clinical consequences of changes in drug metabolism and its impact on patient welfare After underlining the relationship between efficacy toxicity and drug concentration the book then considers how metabolizing systems operate and how they impact upon drug concentration both under drug pressure and during inhibition Factors affecting drug metabolism such as genetic polymorphisms age and diet are discussed and how metabolism can lead to toxicity is explained The book concludes with the role of drug metabolism in the commercial development of therapeutic agents as well as the pharmacology of some illicit drugs

Growing Up Drug-free, 1998

EBOOK: Psychology: The Science of Mind and Behaviour Nigel Holt, Andy Bremner, Ed Sutherland, Michael Vliek, Michael Passer, Ronald Smith, 2015-02-16 Psychology The Science of Mind and Behaviour is here with a new fully updated and revised third edition Bringing new developments in the field and its renowned pedagogical design the third edition offers an exciting and engaging introduction to the study of psychology This book's scientific approach which brings together international research practical application and the levels of analysis framework encourages critical thinking about psychology and its

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Reviewing **Drugs And Fitting In**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Drugs And Fitting In**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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