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Possible mechanisms of enhancing drug permeation include: a) increase in drug diffusivity in the vehicle and/or in the skin, b) increase in partitioning and diffusion, c) disturbance in the lipid...

~~Percutaneous Absorption: Drugs, Cosmetics, Mechanisms~~ ...

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An understanding of the pharmacodynamics and pharmacokinetics of a drug is essential for its safe use. A therapeutic effect of a drug and its appropriate dosage

~~Drug Concentration in the Skin | Percutaneous Absorption~~ ...

percutaneous absorption drugs cosmetics mechanisms methodology robert l bronaugh howard i maibach since publication of the second edition in 1989 numerous innovations have occurred that affect the way scientists look at issues in the field of percutaneous absorption focusing on recent advances as well as updating and expanding the scope of topics covered in the previous edition

Since publication of the Second Edition in 1989, numerous innovations have occurred that affect the way scientists look at issues in the field of percutaneous absorption. Focusing on recent advances as well as updating and expanding the scope of topics covered in the previous edition, Percutaneous Absorption, Third Edition provides thorough coverage of the skin's role as an important portal of entry for chemicals into the body. Assembles the work of nearly 80 experts-30 more than the Second Edition-into a unified, comprehensive volume that contains the latest ideas and research! Complete with nearly 600 drawings, photographs, equations, and tables and more than 1600 bibliographic citations of pertinent literature, Percutaneous Absorption, Third Edition details the applied biology of percutaneous penetration factors that affect skin permeation, such as age, vehicles, metabolism, hydration of skin, and chemical structure in vivo and in vitro techniques for measuring absorption, examining factors influencing methodology such as animal models, volatility of test compound, multiple dosage, and artificial membranes procedures for use in transdermal delivery, exploring topics such as effects of penetration enhancers on absorption, optimizing absorption, and the topical delivery of drugs to muscle tissue And presents new chapters on mathematical models cutaneous metabolism prediction of percutaneous absorption in vitro absorption methodology dermal decontamination concentration of chemicals in skin transdermal drug delivery mechanisms of absorption safety evaluation of cosmetics absorption of drugs and cosmetic ingredients nail penetration Emphasizes human applications-particularly useful for pharmacists, pharmacologists, dermatologists, cosmetic scientists, biochemists, toxicologists, public health officials, manufacturers of cosmetic and toiletry products, and graduate students in these disciplines! An invaluable reference source for readers who need to keep up with the latest developments in the field, Percutaneous Absorption, Third Edition is also an excellent experimental guide for laboratory personnel.

Updating and expanding the scope of topics covered in the previous edition, this Fourth Edition supplies new chapters on topics currently impacting the field including cutaneous metabolism, skin contamination, exposure to protein allergens, in vitro absorption methodology, the percutaneous absorption of chemical mixtures, the penetration of chemicals through the hair follicles, dermal drug delivery, mechanisms of absorption, nanoparticles and dermal absorption, the absorption of drugs and cosmetic ingredients, nail penetration, and other current research.

Updating and expanding the scope of topics covered in the previous edition, Percutaneous Absorption: Drugs, Cosmetics, Mechanisms, Methods, Fifth Edition supplies new chapters on topics currently impacting the field including cutaneous metabolism, skin contamination, exposure to protein allergens, in vitro absorption methodology and the percutaneous absorption of chemical mixtures. Complete with studies on the role of the skin as a key portal of entry for chemicals into the body, this book serves as a detailed reference source for recent advances in the field, as well as an experimental guide for laboratory personnel. Key Features: Details in vivo and in vitro methods for measuring absorption, dermal decontamination, mechanisms of transdermal delivery, and the relationship of transepidermal water loss to percutaneous absorption Considers a range of mathematical models, the safety evaluation of cosmetic ingredients, the absorption of hair dyes, nanoparticles for drug delivery, and other novel methods of drug delivery Discusses topics including skin metabolism, the skin reservoir, and the effects of desquamation on absorption

Founded on the paradox that all things are poisons and the difference between poison and remedy is quantity, the determination of safe dosage forms the base and focus of modern toxicology. In order to make a sound determination there must be a working knowledge of the biologic mechanisms involved and of the methods employed to define these mechanisms. While the vastness of the field and the rapid accumulation of data may preclude the possibility of absorbing and retaining more than a fraction of the available information, a solid understanding of the underlying principles is essential. Extensively revised and updated with four new chapters and an expanded glossary, this fifth edition of the classic text, Principles and Methods of Toxicology provides comprehensive coverage in a manageable and accessible format. New topics include 'toxicopanomics', plant and animal poisons, information resources, and non-animal testing alternatives. Emphasizing the cornerstones of toxicology-people differ, dose matters, and things change, the book begins with a review of the history of toxicology and followed by an explanation of basic toxicological principles, agents that cause toxicity, target organ toxicity, and toxicological testing methods including many of the test protocols required to meet regulatory needs worldwide. The book examines each method or procedure from the standpoint of technique and interpretation of data and discusses problems and pitfalls that may be associated with each. The addition of several new authors allow for a broader and more diverse treatment of the ever-changing and expanding field of toxicology. Maintaining the high-quality information and organizational framework that made the previous editions so successful, Principles and Methods of Toxicology, Fifth Edition continues to be a valuable resource for the advanced practitioner as well as the new disciple of toxicology.

Introduction and definitions -- Skin structure and function -- Skin transport mechanisms and theoretical concepts -- Metabolism in the skin -- In vitro tests for dermal absorption -- In vivo tests for dermal absorption -- Comparative studies -- Data collections -- Estimation/prediction of dermal penetration -- Use of dermal penetration studies in risk assessment -- Controversial topics in the assessment of dermal absorption -- Conclusions and recommendations.

Many experimental methods and mathematical modeling approaches rooted in disciplines outside of toxicology can be effectively applied to estimating dermal absorption. Dermal Absorption Models in Toxicology and Pharmacology explores current approaches and techniques that can be used to quantify dermal absorption with endpoints useful in both toxicology and pharmacology. The book begins with a review of basic principles and the in vitro and in vivo experimental approaches available for assessing dermal absorption of drugs and chemicals. This is followed by coverage of mathematical or in silico models for quantitating percutaneous absorption and the applications of these techniques to the risk assessment process. The remainder of the book explores scenarios where the unique properties of the chemicals being studied or the matrix in which they are exposed must be considered and then wraps up with a comparative analysis of chemical permeability in human and animal skin. Many of the books covering this subject are just too comprehensive and serve primarily as reference works. This book takes a different approach. Jim Riviere's editorial guidance ensures that the information is readable, accessible, authoritative, and concise, making it the perfect resource for familiarizing new researchers and students to the field and updating established scientists.

This book sheds new light on the development and use of quantitative models to describe the process of skin permeation. It critically reviews the development of quantitative predictive models of skin absorption and discusses key recommendations for model development. Topics presented include an introduction to skin physiology; the underlying theories of skin absorption; the physical laboratory-based processes used to generate skin absorption data, which is in turn used to construct mathematical models describing the skin permeation process; algorithms of skin permeability including quantitative structure-activity (or permeability) relationships (QSARs or QSPRs); relationships between permeability and molecular properties; the development of formulation-focused approaches to models of skin permeability prediction; the use of artificial membranes, e.g. polydimethylsiloxane as alternatives to mammalian skin; and lastly, the use of novel Machine Learning methods in developing the next generation of predictive skin permeability models. The book will be of interest to all researchers in academia and industry working in pharmaceutical discovery and development, as well as readers from the field of occupational exposure and risk assessment, especially those whose work involves agrochemicals, bulk chemicals and cosmetics.

A must-have reference for any researcher or scientist interested in cutaneous protective mechanisms, this guide provides expertly researched chapters on every aspect of stratum corneum structure, function, and development, as well as detailed sections on barrier-repair strategies and the role of barrier function in diseases such as atopic dermatiti

Written by experienced and internationally renowned contributors, this is the fourth edition of what has become the standard reference for cosmetic scientists and dermatologists seeking the latest innovations and technology for the formulation, design, testing, use, and production of cosmetic products for skin, hair, and nails. New to this fourth e

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