

Pharmacokinetics

Two Compartment Open Model

Solved Problems

by G.S.N.K.Rao {Eswar}



PROBLEM-9:

Following a 650 mg i.v. bolus dose of a drug to a 65 kg subject, the plasma drug concentration was found to decline biexponentially. The equation that best described the drug kinetics was: $C = 67 e^{-14t} + 33 e^{-3t}$ where t is in hours and C is in $\mu\text{g/ml}$. Calculate the following:

SOLUTION-9:

Given data: $C = 67 e^{-14t} + 33 e^{-3t}$ which is biexponential and best fits for the two compartment kinetics model equation: $C = A e^{-\alpha t} + B e^{-\beta t}$
 On comparison of two equations we have:
 Hybrid constants: $A = 67$ and $B = 33$
 Hybrid first order constant: for rapid distribution phase, $\alpha = 14$
 Hybrid first order constant: for slow elimination phase, $\beta = 3$
 Dose administered intravenously, $X_0 = 650 \text{ mg}$

a. Calculate the volume of the central compartment, V_c :

Formula, $V_c = X_0/C_0$

So, first calculate C_0 and substitute the same in above equation

$$C_0 = A+B = 67 + 33 = 100$$

$$\therefore V_c = X_0/C_0 = 650/100 = 6.5 \text{ liters}$$

b. Calculate the micro constants K_{12} and K_{21}

Remind the equations:

$$K_{12} = \frac{AB(\beta + \alpha)^2}{C_0(A\beta + B\alpha)} = \frac{(67 \times 33)(3 + 14)^2}{100(67 \times 3 + 33 \times 14)} = \frac{2,67,531}{66,300} = 4.04/\text{hr}$$

$$K_{21} = \frac{A\beta + B\alpha}{C_0} = \frac{(67 \times 3) + (33 \times 14)}{100} = \frac{663}{100} = 6.63/\text{hr}$$

c. Calculate the volume of peripheral compartment

$$\text{Formula, } V_p = \frac{V_c K_{12}}{K_{21}} = \frac{6.5 \times 4.04}{6.63} = 3.96 \text{ liters}$$

Two Compartment Open Model Solved Problems

Bernard Testa



Two Compartment Open Model Solved Problems:

Problem Solving Questions in Toxicology: P K Gupta, 2020-10-19 The book provides easy to understand diverse specialized topics in toxicology using self study questions and answers The answers are in the form of text along with custom made diagrams and explanations that help the student audience to understand and grasp the matter easily It is written specifically as a study guide for the toxicology board and other examinations

The Application of Metabolic and Excretion Kinetics to Problems of Industrial Toxicology Jerzy Piotrowski, 1971

Biopharmaceutics and Clinical Pharmacokinetics Robert E. Notari, 2017-11-22 For a decade and a half Biopharmaceutics and Clinical Pharmacokinetics has been used in the classrooms around the world as an introductory textbook on biopharmaceutics and pharmacokinetics Now the new Fourth Edition Revised and Expanded further enhances the preceding editions proven features introducing significant advances in clinical pharmacokinetics pharmacokinetic design of drugs and dosage forms and model independent analyses Still usable without prior knowledge of calculus or kinetics this successfully implemented workbook maintains a carefully graduated building block presentation incorporating sample problems and exercises throughout for a thorough understanding of the material Biopharmaceutics and Clinical Pharmacokinetics features a growth oriented format that systematically develops and interrelates all subject matter introduces basic theory and fields of application emphasizes model independent pharmacokinetic analyses presents biopharmaceutical aspects of product design and evaluation offers a unique approach to teaching dosage regimen design and individualization and considers structural modification of drug molecules for problems associated with pharmacokinetics As a comprehensive coverage of the basic principles and the recent achievements in the field no other textbook does as much for students of pharmacy pharmacology medicinal chemistry and medicine or for scientists who desire a simple but thorough introduction to theory and application

Mathematics in Biology and Medicine Vincenzo Capasso, Enea Grosso, Stefano L. Paveri-Fontana, 2013-03-13

Renal Function and Disease in the Elderly Juan F. Macias Nuñez, J. Stewart Cameron, 2014-04-24 Renal Function and Disease in the Elderly explores the renal system of elders The book details the various roles of renal system as well as the illnesses that the elderly can have The book is inspired by the insufficient attention this topic has received among medical personnel The book begins by discussing the changes in a person's vessels and kidney as he or she ages The discussion then shifts to the older person's glomerulus and renal blood flow Other chapters offer information about how aging affects a person's body systems and processes including water balance electrolytes kidneys proximal tubes and ingestion of drugs Diseases such as urinary tract infection interstitial nephropathies glomerulonephritis renal vasculitis renal cyst acute renal failure and obstructive uropathy are also explained While the book is primarily a valuable reference for medical practitioners in the field it also caters to students and casual readers Elderly readers regardless of whether they have a disease or not can also benefit from this book

Cumulated Index Medicus, 1993

In Defense of Dolphins Thomas I. White, 2008-04-15 Have humans been sharing the planet with

other intelligent life for millions of years without realizing it In *Defense of Dolphins* combines accessible science and philosophy surveying the latest research on dolphin intelligence and social behavior to advocate for their ethical treatment Encourages a reassessment of the human dolphin relationship arguing for an end to the inhuman treatment of dolphins Written by an expert philosopher with almost twenty years of experience studying dolphins Combines up to date research supporting the sophisticated cognitive and emotional capacities of dolphins with entertaining first hand accounts Looks at the serious questions of intelligent life ethical treatment and moral obligation Engaging and thought provoking *Oral Mucosal Drug Delivery and Therapy* Michael J. Rathbone, Sevda Senel, Indiran Pather, 2015-03-13 This volume provides a comprehensive overview of the current issues facing scientists working on delivering drugs locally and systemically via the membranes that line the mouth The book describes the anatomical and physiological challenges of this route for drug delivery and how they impact the design of oral mucosal drug delivery systems It also provides a detailed description of current oral mucosal drug delivery technologies that overcome these challenges alongside research development and assessment methods In 11 authoritative chapters the book affords an in depth evaluation of the major issues associated with this route of administration namely the retention of the drug product at the site of administration and increasing drug permeability through the oral mucosa The book provides insights into the in vitro and in vivo methods available to assess drug permeability and retention offers solutions on how to improve the permeation of the drugs through the oral mucosa and explores approaches to prolong drug product retention at the site of administration It also indicates future directions in research and product development *Oral Mucosal Drug Delivery and Therapy* is a key resource for those wishing to extend their knowledge of this field *Constraint Reasoning for Differential Models* Jorge Cruz, 2005 Focuses on the integration of ordinary differential equations within the interval constraints framework which for this purpose is extended with the formalism of Constraint Satisfaction Differential Problems Such a framework allows the specification of ordinary differential equations by means of constraints *Advances in Drug Research* Bernard Testa, 2013-10-22 Each volume in this distinguished series presents authoritative reviews on topics of broad interest in drug research and on novel and established therapeutic classes Acknowledged experts contribute in areas such as drug design clinical and molecular pharmacology drug metabolism and mechanisms of action Reviewers have consistently praised *Advances in Drug Research* for its comprehensive and lucid summaries of up to date knowledge **Differential Equations** William E. Boyce, 2010-11-08 Unlike other books in the market this second edition presents differential equations consistent with the way scientists and engineers use modern methods in their work Technology is used freely with more emphasis on modeling graphical representation qualitative concepts and geometric intuition than on theoretical issues It also refers to larger scale computations that computer algebra systems and DE solvers make possible And more exercises and examples involving working with data and devising the model provide scientists and engineers with the tools needed to model complex real world situations *Mathematical and*

Computational Methods in Physiology L. Fedina, B. Kanyár, B. Kocsis, 2013-10-22 Mathematical and Computational Methods in Physiology discusses the importance of quantitative description of physiological phenomena and for quantitative comparison of experimental data An article explains the homeostasis of the body with a focus on the controlling aspects This section evaluates the concepts of modern physiology and biocybernetics The canal ocular reflex and the otolith ocular reflex in man stimulates eye rotations compensatory for head angular and linear displacements The book enumerates some modelling and simulation to observe the visual vestibular interaction during angular and linear body acceleration A section on the determination of cardiovascular control is given The text reviews the mathematical models of the biological age of the rat A numerical simulation of water transport in epithelial junctions is explained comprehensively A chapter analyzing the computer simulation of drug receptor interaction is presented The book will provide useful information to zoologists doctors ophthalmologists students and researchers in the field of medicine Receptors and Centrally Acting Drugs

Pharmacokinetics and Drug Metabolism E. S. Vizi, S. Fürst, G. Zsilla, 2013-10-22 Advances in Pharmacological Research and Practice Volume 2 Receptors and Centrally Acting Drugs presents the proceeding of the 4th Congress of the Hungarian Pharmacological Society held in Budapest Hungary in 1985 This book presents a comprehensive view of the developments in the fields of receptors and centrally acting drugs as well as in pharmacokinetics and drug metabolism Organized into two sections encompassing 25 chapters this volume begins with an overview of prejunctional regulation of neuromuscular transmission This text then explores the whole body autoradiography that is used extensively in toxicological research and screening Other chapters consider the three major classes of models used in pharmacokinetics This book discusses as well the various aspects of melanin drug interactions The final chapter deals with the investigation on the melanin affinity of amphetamine derivatives This book is a valuable resource for pharmacologists pharmacokineticists and researchers

Veterinary Pharmacology and Therapeutics Jim E. Riviere, Mark G. Papich, 2017-11-29 Veterinary Pharmacology and Therapeutics Tenth Edition is a fully updated and revised version of the gold standard reference on the use of drug therapy in all major veterinary species Provides current detailed information on using drug therapies in all major domestic animal species Organized logically by drug class and treatment indication with exhaustive information on the rational use of drugs in veterinary medicine Includes extensive tables of pharmacokinetic data products available and dosage regimens Adds new chapters on pharmaceuticals ophthalmic pharmacology food animal pharmacology and aquatic animal pharmacology Includes access to a companion website with the figures from the book in PowerPoint Essential Pharmacokinetics Thorsteinn

Loftsson, 2015-03-25 Essential Pharmacokinetics A Primer for Pharmaceutical Scientists is an introduction to the concepts of pharmacokinetics intended for graduate students and new researchers working in the pharmaceutical sciences This book describes the mathematics used in the mammillary model as well as the application of pharmacokinetics to pharmaceutical product development and is useful as both a self study and classroom resource Content coverage includes detailed

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Data-driven Models in Inverse Problems Tatiana A. Bubba,2024-11-18 Advances in learning based methods are revolutionizing several fields in applied mathematics including inverse problems resulting in a major paradigm shift towards data driven approaches This volume which is inspired by this cutting edge area of research brings together contributors from the inverse problem community and shows how to successfully combine model and data driven approaches to gain insight into practical and theoretical issues *Dynamic Clinical Studies with Radioisotopes* W. Newlon Tauxe,1964 **Dynamic**

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