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Short

Description: This popular teaching and self-

instructional

text makes it

easier than ever

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to acquire a strong foundation in the basic principles of pharmacokinetics. Updated with the latest clinical advances, Rowland and Tozer's Clinical P

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Pharmacokinetics
and Pharmacody
namics, Fifth
Edition ,
explains the
relationship
between drug
administration
and drug
response, taking
a conceptual
approach that

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emphasizes
clinical

application
rather than
science and
mathematics.

Bringing a real-
life perspective
to the topic, the
book simplifies
concepts and
gives readers

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the knowledge
they need to
better evaluate
drug
applications.
The topics
chosen for this
volume were
selected
because they
are some of the
current

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development or
technological
issues facing
drug
development
project teams.
They regard the
practical
considerations
for assessment
of selected
special

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development
populations. For
example, they
include
characterization
of drug
disposition in
pregnant
subjects, for
measuring
arrhythmic
potential, for

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analysis tumor
growth
modeling, and
for disease
progression
modeling.

Practical
considerations
for metabolite
safety testing,
transporter
assessments,

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Phase 0 testing,
and
development
and execution of
drug interaction
programs reflect
current
regulatory topics
meant to
address
enhancement of
both safety

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assessment and
early decision-
making during
new candidate
selection.

Important
technologies like
whole body
autoradiography
, digital imaging
and dried blood
spot sample

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collection
methods are
introduced, as
both have
begun to take a
more visible role
in
pharmacokinetic
departments
throughout the
industry.
Pharmaceutical

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Medicine and
Translational
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Research covers
clinical testing
of medicines
and the
translation of
pharmaceutical
drug research
into new
medicines, also

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focusing on the need to understand the safety profile of medicine and the benefit-risk balance. Pharma coeconomics and the social impact of healthcare on patients and

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public health are also featured. It is written in a clear and straightforward manner to enable rapid review and assimilation of complex information and contains reader-

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friendly
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greater
understanding
of these aspects
is critical for
students in the
areas of
pharmaceutical
medicine,
clinical research,
pharmacology

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and pharmacy,
as well as
professionals
working in the
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detailed
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current trends

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look at current
and important

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mics and Clinical

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Introduction to P
harmacokinetics
and Pharmacody
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With its clear,
straightforward
presentation,
this text
enables you to
grasp all the
fundamental
concepts of

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pharmacokinetics
and pharmacodyna
mics. This will
allow you to
understand the
time course of
drug response
and dosing
regimen design.
Clinical models
for
concentration
and response are
described and

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built from the basic concepts presented in earlier chapters. Your understanding of the material will be enhanced by guided computer exercises conducted on a companion website.

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Simulations will allow you to visualize drug behavior, experiment with different dosing regimens, and observe the influence of patient characteristics and model parameters. This makes the book

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ideal for self-study. By including clinical models of agonism, indirect drug effects, tolerance, signal transduction, and disease progression, author Sara Rosenbaum has

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created a work that stands out among introductory-level textbooks in this area. You'll find several features throughout the text to help you better understand and apply key concepts: Three

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fictitious drugs
are used
throughout the
text to
progressively
illustrate the
development and
application of
pharmacokinetic
and
pharmacodynamic
principles
Exercises at the
end of each

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chapter
reinforce the
concepts and
provide the
opportunity to
perform and
solve common
dosing problems
Detailed
instructions let
you create
custom Excel
worksheets to
perform simple

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pharmacokinetic
analyses Because
this is an
introductory
textbook, the
material is
presented as
simply as
possible. As a
result, you'll
find it easy to
gain an
accurate,
working

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knowledge of all the core principles, apply them to optimize dosing regimens, and evaluate the clinical pharmacokinetic and pharmacodynamic literature.

This unique text helps students

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and healthcare professionals master the fundamentals of pharmacokinetics and pharmacodynamics. Written by distinguished international experts, it provides readers with an introduction to the basic

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principles underlying the establishment and individualization of dosage regimens and their optimal use in drug therapy. Up-to-date examples featuring currently prescribed drugs illustrate how

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relate to
contemporary
drug therapy.
Study problems
at the end of
each chapter
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professionals
gain a firm
grasp of the

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material covered
within the text.
Essential Pharma
cokinetics: A
Primer for
Pharmaceutical
Scientists is an
introduction to
the concepts of
pharmacokinetics
intended for
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students and new
researchers

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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

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is useful as
both a self-
study and
classroom
resource.

Content coverage
includes
detailed
discussions of
common models
and important
pharmacokinetic
concepts such as
biological half-

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life, clearance, excretion, multiple dosage regimens and more. Numerous equations, practical examples and figures are incorporated to clearly illustrate the theoretical background of

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pharmacokinetic
behavior of
drugs and
excipients.

Shows how to
apply basic
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methods to
evaluate drugs,
excipients and
drug products
Uses guided
practice
questions,

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mathematical
concepts and
real-world
examples for
self-assessment
and retention
purposes
Illustrates how
to write and
evaluate drug
registration
files

Pharmacokinetics
is the study of

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the process of drug absorption, distribution, metabolism and elimination. The aim of applying pharmacokinetic principles is to individualise the dose of drug, and optimise the outcome achieved in each patient.

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Its application reduces the chance of under-treatment, inadvertent poisoning, and dose related adverse effects. This new edition is specifically aimed at supporting undergraduate studies in pharm

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acokinetics, and has a strong emphasis on the application of pharmacokinetics in routine clinical practice.

Clinical Pharmacokinetics also includes several case studies and 'questions and

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answers' to
further aid
understanding
and revision.

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and
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Nano-Pharmacokin
etics and
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An Update

Rowland and

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mics: Concepts

and Applications

A practical guide for

the treatment of

common diseases, this

updated edition

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includes the very latest information. It covers the treatment of disease by drug therapy and uses case studies to illustrate the application of the principles discussed. For a decade and a half,

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and Clinical

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been used in
the classrooms around
the world as an
introductory textbook
on biophannaceutics
and phannacokinetics
.Now, the new Fourth
Edition, Revised and
Expanded further
enhances the
preceding
editions' proven
features, introducing

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significant advances
in clinical

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of drugs and dosage

forms, and model-

independent

analyses. Still usable

without prior

knowledge of

calculus or kinetics,

this successfully

implemented

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workbook maintains a
carefully graduated
"building block"
presentation,
incorporating sample
problems and
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for a thorough
understanding of the
material. Biopharmac
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features a growth-

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oriented format that systematically develops and interrelates all subject matter . . .

introduces basic theory and fields of application...

emphasizes model-independent

pharmacokinetic

analyses ... presents

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aspects of product

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.. . offers a unique

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design

and individualization .

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molecules for

problems

associated with

pharmacokinetics. As

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a comprehensive
coverage of the basic
principles and the
recent achievements
in the field, no other
textbook does as
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medicinal chemistry,

and medicine, or for

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More on plasma

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New vancomycin cases based on higher desired vancomycin levels and trough-only dose estimations More on modified diet in renal disease (MDRD) formula versus Cockcroft-Gault (CG) formula methods More theory and problems on extended interval

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FLAVONOIDS More

and more dietary

supplements contain

flavonoids. These

products are typically

viewed as food rather

than drug products by

regulatory agencies

and therefore not

subjected to rigorous

clinical trials before

they are marketed to

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the general public. As a result, the use of flavonoid-containing supplements presents a potential public health risk. From discovery to therapeutic application, this book is a comprehensive guide to both achiral and chiral flavonoids, enabling researchers

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to perform essential preclinical and clinical pharmacokinetics studies in order to ensure the efficacy of flavonoids marketed for therapeutic use. Moreover, the book examines the safety and toxicology of flavonoids as well as flavonoid-drug

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interactions. With
contributions from a
multidisciplinary
team of leading
researchers,

Flavonoids

Pharmacokinetics

reviews and
synthesizes the most
recent research
findings and results
from preclinical and
clinical studies. The

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book begins with a comprehensive overview of polyphenols and flavonoids. Next, the book covers: Methods of analysis of achiral flavonoids Preclinical pharmacokinetic of flavonoids Toxicology and safety of flavonoids Methods of analysis for chiral

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flavonoids Clinical
pharmacokinetics of
flavonoids Flavonoids
and drug interactions
Throughout the book,
the authors provide
examples that
demonstrate the use
of pharmacokinetics
concepts during the
preclinical and
clinical drug
development process.

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Flavonoid

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ensure their safety
and efficacy.

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Modeling of
Clinically Significant
Drug Metabolites
Systems
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The Quantitative

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Pharmacokinetics

and Toxicokinetic

Considerations

explains the

central principles,

cutting-edge

methodologies, and

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incipient thought processes applied to toxicology research. As part of the Advances in Pharmaceutical Product Development and Research series, the book provides expert literature on dose, dosage regimen and dose adjustment,

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**medication errors,
and approaches for
its prevention, the
concept of
pharmacotherapy,
and managed care
in clinical
interventions. It
expounds on
strategies to
revamp the
pharmacokinetics
of the drug and the
factors affecting**

**the stability of
drugs and their
metabolites in
biological
matrices. Finally,
the book offers
focused
elaborations on
various
bioanalytical
methods for
bioavailability and
bioequivalence
assessment and**

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integrates the wide-ranging principles and concepts shared by toxicokinetics and pharmacodynamics as mutual crosstalk rather than isolated observations. It will be helpful to researchers and advanced students working in the

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**pharmaceutical,
cosmetics,
biotechnology,
food, and related
industries
including
toxicologists,
pharmacists, and
pharmacologists.
Allows readers to
systematically
integrate up-to-
date research
findings into their**

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**laboratory work
Presents focused
explorations of
bioanalytical
methods for
bioavailability and
bioequivalence
assessment**

**Provides clinical
applications of
concepts**

**This is a second
edition to the
original published**

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by Springer in
2006. The

**comprehensive
volume takes a
textbook approach
systematically
developing the
field by starting
from linear models
and then moving
up to generalized
linear and non-
linear mixed
effects models.**

Since the first edition was published the field has grown considerably in terms of maturity and technicality. The second edition of the book therefore considerably expands with the addition of three new chapters

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relating to

**Bayesian models,
Generalized linear
and nonlinear
mixed effects
models, and
Principles of
simulation. In
addition, many of
the other chapters
have been
expanded and
updated.**

Atkinson's

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**Principles of
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Pharmacology,
Fourth Edition is
the essential
reference on the
pharmacologic
principles
underlying the
individualization of
patient therapy
and contemporary
drug development.
This well-regarded**

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survey continues to focus on the basics of clinical pharmacology for the development, evaluation and clinical use of pharmaceutical products while also addressing the most recent advances in the field. Written by leading experts in

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academia,

industry, clinical

and regulatory

settings, the fourth

edition has been

thoroughly

updated to provide

readers with an

ideal reference on

the wide range of

important topics

impacting clinical

pharmacology.

Presents the

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**essential
knowledge for
effective practice
of clinical
pharmacology
Includes a new
chapter and
extended
discussion on the
role of
personalized and
precision medicine
in clinical
pharmacology**

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Offers an extensive regulatory section that addresses US and international issues and guidelines Provides extended coverage of earlier chapters on transporters, pharmacogenetics and biomarkers, along with further discussion on "Phase 0" studies

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(microdosing) and
PBPK

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APPROACH TO
DESIGNING
ACCURATE
DOSING
REGIMENS**

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Pharmacokinetics
and Drug Dosing
uses real-life cases
to teach pharmacy
students,**

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**pharmacists, and
clinical
pharmacists how to
apply
pharmacokinetics
to formulate
proper dosing
regimens. In order
to be as clinically
relevant as
possible, the book
not only discusses
drugs with readily
available**

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therapeutic serum levels, but places equal emphasis on high-alert agents with narrow therapeutic indexes. Each drug chapter is written by clinical pharmacists who have hands-on experience in drug dosing and includes an

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**overview of the
drug's**

**pharmacology,
including:**

**Indications Mec
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Toxicities**

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**There is
comprehensive
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discussion of each
drug's
bioavailability,**

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volume of
distribution,
clearance, half-life,
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level monitoring,
drug interactions,
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availability. Each
chapter is
enhanced by
numerous patient
cases with clear
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answers and

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parameters 107; 5.

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173; 6.

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213; 7. An overview
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clinical practice 290;
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346; Appendix D:

Multiple-dose
equations 348;

Appendix E: List of
symbols of general
occurrence 351.

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approach adopted in
the book allows
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and

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classic

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find value in this
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Teaching and
Learning, Milena
McLaughlin,
Midwestern
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College of Pharmacy,
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Washington, 2018

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properties. As
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established
drugs, data is
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contemporary ph
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[sims/](https://web.uri.edu) • Adds

new chapters on

physiologically

based

pharmacokinetic

models,

predicting drug-

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drug interactions, and pharmacogenetics while also strengthening original chapters to better prepare students for more advanced applications •

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ideal textbook
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use as a
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... "*

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and "I could recommend Rosenbaum's book for pharmacology students because it is written from a perspective of drug action . . . Overall, this is a well-written

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*introduction to
PK/PD “*

(British

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Newsletter)

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strategies in

all chapters.

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sirolimus under

the Immunosuppr

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section.

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drug dosing in
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populations,
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disease,
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congestive heart failure. 30% of chapters extensively revised, others lightly updated While systems biology and pharmacodynamics have evolved in parallel, there are significant interrelationsh

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*ips that can
enhance drug
discovery and
enable
optimized
therapy for
each patient.*

Systems

*pharmacology is
the relatively
new discipline
that is the
interface*

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*between these
two methods.*

*This book is
the first to
cover the
expertise from
systems biology
and pharmacodyn
amics*

*researchers,
describing how
systems*

pharmacology

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may be developed and refined further to show practical applications in drug development. There is a growing awareness that pharmaceutical companies

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*should reduce
the high
attrition in
the pipeline
due to
insufficient
efficacy or
toxicity found
in proof-of-
concept and/or
Phase II
studies.*

Systems

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*Pharmacology
and Pharmacodyn
amics discusses
the framework
for integrating
information
obtained from
understanding p
hysiological/pa
thological
pathways
(normal body
function system*

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*vs. perturbed
system due to
disease) and
pharmacological
targets in
order to
predict
clinical
efficacy and
adverse events
through
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between*

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*mathematical
modeling and ex
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*Oxford Textbook
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*Introduction to
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*An
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introduction into
pharmacokinetic and
pharmacodynamic
concepts using simple
illustrations and
reasoning. It describes
ways in which
pharmacodynamic
and
pharmacodynamic
theory may be used to
give insight into
modeling questions

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and how these
questions can in turn
lead to new

knowledge. This book
differentiates itself
from other texts in this
area in that it bridges
the gap between
relevant theory and
the actual application
of the theory to real
life situations. The
book is divided into

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two parts; the first introduces fundamental principles of PK and PD concepts, and principles of mathematical modeling, while the second provides case studies obtained from drug industry and academia. Topics included in the first

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part include a
discussion of the
statistical principles
of model fitting,
including how to
assess the adequacy of
the fit of a model, as
well as strategies for
selection of time
points to be included
in the design of a
study. The first part
also introduces basic

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pharmacokinetic and pharmacodynamic concepts, including an excellent discussion of effect compartment (link) models as well as indirect response models. The second part of the text includes over 70 modeling case studies. These include a discussion of the

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selection of the model, derivation of initial parameter estimates and interpretation of the corresponding output. Finally, the authors discuss a number of pharmacodynamic modeling situations including receptor binding models, synergy, and tolerance

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models (feedback and precursor models).

This book will be of interest to researchers, to graduate students and advanced undergraduate students in the PK/PD area who wish to learn how to analyze biological data and build models and to

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become familiar with new areas of application. In addition, the text will be of interest to toxicologists interested in learning about determinants of exposure and performing toxicokinetic modeling. The inclusion of the

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numerous exercises and models makes it an excellent primary or adjutant text for traditional PK courses taught in pharmacy and medical schools. A diskette is included with the text that includes all of the exercises and solutions using WinNonlin.

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Symptoms in the Pharmacy is an indispensable guide to the management of common symptoms seen in the pharmacy. With advice from an author team that

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includes both pharmacists and GPs, the book covers ailments which will be encountered in the pharmacy on a daily basis. Now in its sixth edition Symptoms in the Pharmacy has been fully revised to reflect the latest evidence and availability of new

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medicines. There are new sections and case studies for 'POM' to 'P' switches including chloramphenicol, sumatriptan, diclofenac, naproxen and amorolfine. This edition features colour photographs of skin conditions for the first time enabling the differentiation and

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diagnosis of common complaints. The public health and illness prevention content have been expanded to support this increasingly important aspect of the pharmacist's work.

The book is designed for quick and easy reference with separate chapters for

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each ailment. Each chapter incorporates a decision making framework in which the information necessary for treatment and suggestions on 'when to refer' is distilled into helpful summary boxes. At the end of each chapter there are example case studies

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providing the view of pharmacists, doctors and patients for most conditions covered.

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inetics Methods of

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and Clinical

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Clinical

Pharmacology During

Pregnancy is written

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for clinicians,
physicians, midwives,
nurses, pharmacists
and other medical
professionals directly
involved in the care of
women during
pregnancy. This book
focuses on the impact
of pregnancy on drug
disposition and also
includes coverage of
treatments for

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diseases of specific body systems, as well as essential content on dosing and efficacy.

Written in a clear and practical manner, this reference provides easily accessible information and clinical guidance on how best to treat women with medications during

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pregnancy. Utilizes an evidence-based approach for therapeutics during pregnancy Includes a summary of specific medications by indication with up-to-date information on dosing and efficacy in pregnancy for the given indication Highlights current

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research in this area
and provides easily
accessible and vital
information for
clinicians

Complements the
companion volume,
Drugs During
Pregnancy and
Lactation by Schaefer
et al and presents a
bundling opportunity
to the same target

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audience of medical
professionals Includes

a companion website

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cancer, written and
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cancer cells grow and
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to oncology
treatment. The book
examines the
challenges presented
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**population groups,
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patients, both during
and after treatment.**

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oriented, case-based
chapters, ranging
from acute**

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leukaemia to colon cancer, highlight the various approaches available for managing the cancer patient, including the translational application of cancer science in order to personalise treatment. The advice imparted in these cases has

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and reflects a**

modern approach to

cancer care. The

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comprehensive

account of the

multiple aspects of

best practice in the

discipline, making it

an indispensable

resource for

**oncologists of all
grades and
subspecialty
interests.**

**Nano-
Pharmacokinetics
and Theranostics:
Advancing Cancer
Therapy addresses
from a
comprehensive and
multidisciplinary
approach the**

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**translational aspects
and clinical
perspectives of nano-
pharmacokinetics
using cancer as a
model disease. Nano-
pharmacokinetics is
emerging as an
important sub
discipline of
nanoscience and
medical sciences
because of the**

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increasing safety

issues of

nanosystems on

living organisms.

This book reports

the dynamics of

nanosystems in

living organisms for

better understanding

of nanotoxicity,

pharmacology,

biochemistry,

physiology and

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medicine

perspectives. It further examines current progress of state-of-the art pharmacokinetics mechanisms, which will be of great help to develop more clinical-oriented nanosystems with a wide safety margin. The book is divided

**into three sections:
the first section
focuses on the
concept of
pharmacokinetics
with state-of-the-art
Nano-
Pharmacokinetics
(NPK). The second
section looks at the
engineering of
nanoparticles and
pharmacokinetics**

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clinical development.

The final section

focuses on Nano-

Pharmacokinetics

and Theranostics,

elaborating the basic

question of how

pharmacokinetics of

nanomaterials relate

to their end

applications such as

cancer therapy. Nano-

Pharmacokinetics

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**and Theranostics:
Advancing Cancer
Therapy will be
useful to researchers
in the field of
nanoparticle based
targeted drug
delivery including
pharmaceutical
scientists, material
scientists, chemists,
nanotechnologists,
biomedical scientists,**

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and clinicians.

Includes
contributions from
highly qualified
scientists, regulatory
entities, enterprises
and medical
practitioners to
explain the long and
inherently
multidisciplinary
pathway of nano-
pharmacokinetics

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**Describes assessment
methods of nano-
pharmacokinetics
Examines the
interface between
nanomedicine and
pharmacokinetics to
diagnose and treat
cancer**

**This book is a
comprehensive
resource on
psychotropic**

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**medications,
detailing the latest
methods for defining
their characteristics,
their use in different
patient populations,
and drug-drug
interactions; an
important collection
of information
for clinicians,
students,
researchers, and**

members of the pharmaceutical industry alike. The first section provides the foundational principles of these drugs. Mathematical modeling of parameters that affect their entry to, and exit from, the central nervous system

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(CNS) compartment are presented on an individual basis and then applied to target populations with specific disease states. Methods and characteristics that inform the transfer of these drugs from the laboratory bench to use in patient care are discussed,

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including imaging techniques, genetics and physiological barriers, such as the blood-brain barrier.

The second section describes the characteristics of specific

agents, nominally arranged

into different therapeutic

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categories and with reference crossover use in different disease states. The pharmacologic characteristics of different drug formulations are explored in the context of their ability to improve patient adherence. The third section

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focuses on drug-drug interactions. Psychotropic medications from different categories are frequently prescribed together, or alongside medications used to treat comorbid conditions, and the information provided is directly

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**relevant to the clinic,
as a result. The
clinical application
of pharmacokinetics
and
pharmacodynamics
of CNS agents has
made significant
progress over the
past 50 years and
new information is
reported by
numerous**

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psychiatry,
neurology, and
pharmacology. Our
understanding of the
interrelationship
between these
medications,
receptors, drug
transporters, as well
as techniques for
measurement and
monitoring their inte**

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reactions, is frequently

updated. However,

with information

presented on a host

of different

platforms, and in

different formats,

obtaining the full

picture can be

difficult. This title

aims to collate this

information into a

single source that

can be easily interpreted and applied towards patient care by the clinical practitioner, and act as a reference for all others who have an interest in psychopharmacological agents. This revised second edition covers the pharmacologic

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**principles underlying
the individualization
of patient therapy
and contemporary
drug development,
focusing on the
fundamentals that
underlie the clinical
use and
contemporary
development of
pharmaceuticals.**

Authors drawn from

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**academia, the
pharmaceutical
industry and
government agencies
cover the spectrum
of material,
including
pharmacokinetic
practice questions,
covered by the basic
science section of the
certifying
examination offered**

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unique reference is
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and includes
modules on drug
discovery and
development to assist
students as well as
practicing
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and development to
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and quality
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cohesive of
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stems from author
participation in an
ongoing popular**

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theory and
applications with
provision of sample
problems for self-
study Wide-ranging
perspective of
authors drawn from
the ranks of Federal
agencies, academia
and the**

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of Psychopharmacol
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A Guide to the
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Common Illness
Concepts in Clinical
Pharmacokinetics
Methods of Analysis,
Preclinical and
Clinical
Pharmacokinetics,
Safety, and**

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Textbook and
Computer
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therapies Includes
cases that address
pediatric
considerations and
pharmacogenomics
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information on the
clinical use of serum
drug concentrations
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Objectives at the
beginning of each

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chapter highlight the
key concepts

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guide to the study of
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distribution,
metabolism and
elimination of drugs in
the body.

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