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actions and behavioral effects of
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sciences, An Introduction to
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illustrates concepts and
highlights research techniques.
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elements, which are not found in
other psychopharmacology texts,
but are particularly important for
making this specialized topic
approachable for
undergraduates. Charts and
diagrams illustrate basic

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concepts and processes
important for understanding the
actions and effects of
psychoactive drugs. Chapters
include frequent “ Stop and
Check ” questions that allow
students to check their

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understanding of the material.

Timely reminders of previous material appear in the margins, helping students more effectively learn concepts that are dependent upon key points covered in earlier chapters.

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Finally, each chapter ends with a
“From Actions to Effects” section
that ties together material
presented in the chapter, helping
students see the big picture as
well as the important
connections among concepts

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and topics.

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the interaction between an
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compounds. This book provides
information pertinent to the
fundamental aspects of human
xenobiochemistry. Organized
into four chapters, this book
begins with an overview of the
commonly used substances and

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mentions their actions and side-effects. This text then explains the various classes of pharmaceutical products and discusses the interactions between foreign compounds that may be of clinical significance.

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Other chapters consider the metabolism of selected pharmaceuticals and examine the addition of foreign compounds to foods as flavors, colors, etc. This book discusses as well the metabolism of food

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carcinogens as well as the
metabolism of food toxins. The
final chapter deals with the
different enzymic activities in
snake venoms. This book is a
valuable resource for biologists,
biochemists, microbiologists,

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pharmacologists, organic
chemists, research scientists,
and research workers.

Why are some psychoactive
substances regarded as
' dangerous drugs ' , to be
controlled by the criminal law

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within a global prohibition
regime, whilst others - from
alcohol and tobacco, through to
those we call 'medicines' - are
seen and regulated very
differently? A History of Drugs
traces a genealogy of the

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construction and governance of the 'drug problem' over the past 200 years, calling into question some of the most fundamental ideas in this field: from 'addiction' to the very concept of 'drugs'. At the heart of the book is the claim

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that it was with the emergence in the late eighteenth century of modern liberal capitalism, with its distinctive emphasis on freedom, that our concerns about the consumption of some of these substances began to grow. And,

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indeed, notions of freedom, free will and responsibility remain central to the drug question today. Pursuing an innovative inter-disciplinary approach, A History of Drugs provides an informed and insightful account

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of the origins of contemporary
drug policy. It will be essential
reading for students and
academics working in law,
criminology, sociology, social
policy, history and political
science.

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Signers teach ASL signs
associated with drug use with
printed English glossary shown.

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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

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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

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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

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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

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of drug metabolism in the commercial development of therapeutic agents as well as the pharmacology of some illicit drugs.

Why do many athletes risk their careers by taking performance-enhancing drugs?

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explain why athletes have,
over the last four decades,
increasingly used
performance-enhancing drugs.
It offers a critical
overview of the major
theories of drug use in
sport, and provides a

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detailed analysis of the involvement of sports physicians in the development and use of performance-enhancing drugs. Focusing on drug use within elite sport, the book offers an in-depth examination of

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themes and issues,
including: the history of
drugs in sport and changing
patterns of use fair play,
cheating and the 'spirit of
sport' WADA and the future
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between drugs, sport and
society.

Drug Utilization Research
(DUR) is an eclectic
scientific discipline,
integrating descriptive and
analytical methods for the
quantification,

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understanding and evaluation
of the processes of
prescribing, dispensing and
consumption of medicines and
for the testing of
interventions to enhance the
quality of these processes.
The discipline is closely

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related and linked mainly to the broader field of pharmacoepidemiology, but also to health outcomes research, pharmacovigilance and health economics. Drug Utilization Research is a unique, practical guide to

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Pharmacoeconomics (ISPE),
DUR is the only title to
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emotional, and social damage
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Issues In This Text. Thus The
Book Will Fill The Need Of A Text
For Designing New Drugs And
The Principles Of New Drug
Discovery.

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introduction to the subject of medicinal chemistry, the study of the chemistry of therapeutically active compounds. Focusing on the chemical principles used for drug discovery and design, it also covers physiology and

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framework of fundamental drug
design and principles into which
drugs following on
developments may be fitted. This

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book presents the rationales behind the design of drugs. Organized into nine chapters, this book begins with an overview of how the body handles a drug in terms of absorption, metabolism,

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distribution, and excretion. This text then examines the critical drug activity at the receptor site, which is usually related to blood and other distribution fluid levels. Other chapters consider the factors involved in binding a

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drug, metabolite, or substrate to a receptor. The final chapter deals with the design of chemotherapeutic agent for clinical use in the treatment of human infections. This book is intended for use in

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divided by chapter into each class of drugs, and explains the historical and social contexts of each. It covers alcohol, tranquilizers and sedative hypnotics, inhaled substances, tobacco and nicotine, caffeine

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and the methylxanthines,
psychomotor stimulants, the
opiates, antipsychotic drugs,
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stimulators, cannabis, and
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The modern pharmacopeia has
enormous power to alleviate disease,

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and owes its existence almost entirely to the work of the pharmaceutical industry. This book provides an introduction to the way the industry goes about the discovery and development of new drugs. The first part gives a brief historical account from its origins in the mediaeval

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apothecaries' trade, and discusses the changing understanding of what we mean by disease, and what therapy aims to achieve, as well as summarising case histories of the discovery and development of some important drugs. The second part focuses on the science and

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technology involved in the discovery process: the stages by which a promising new chemical entity is identified, from the starting point of a medical need and an idea for addressing it. A chapter on biopharmaceuticals, whose discovery and development tend to follow

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routes somewhat different from synthetic compounds, is included here, as well as accounts of patent issues that arise in the discovery phase, and a chapter on research management in this environment. The third section of the book deals with drug development: the work

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The Drug Effect
Drug Misuse

The Chemistry and Metabolism of
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Although the scientific literature on drug metabolism is extensive, it suffers from the disadvantage that the material is diffuse and consists largely of specialist

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monographs dealing with particular aspects of the subject. In addition, although there are a few excellent texts on drug metabolism in print, these tend to be earlier publications and hence do not take into account the many recent advances in this area. Our motivations for writing this book therefore arose from

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the clear need for a recent and cohesive introductory text on this subject, specifically designed to cater for the needs of undergraduate and postgraduate students. Much of the subject matter in this text is derived from various courses on drug metabolism given at the University of Surrey and the University of

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Glasgow to basic science students in pharmacology, biochemistry, nutrition and nursing studies, to pre-clinical medical students and to under graduate and post-graduate students in toxicology. Therefore, it is our intention that this text will serve as a primer in drug metabolism to a variety of students in the

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life sciences taking courses in this subject. The term 'drug metabolism' in its broadest sense may be considered as the absorption, distribution, biotransformation and excretion of drugs. To cover all these facets of drug metabolism in a single text is a voluminous task and therefore we have

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focused primarily on the biotransformation aspects of the subject. Advances in knowledge and technology have revolutionized the process of drug development, making it possible to design drugs for a given target or disease. Building on the foundation laid by the previous three editions, Smith and

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Williams Introduction to the Principles of
Drug Design and Action, Fourth Edition
includes the latest informatio

The twentieth century saw a remarkable
upsurge of research on drugs, with major
advances in the treatment of bacterial
and viral infections, heart disease,
stomach ulcers, cancer, and metal

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illnesses. These, along with the introduction of the oral contraceptive, have altered all of our lives. There has also been an increase in the recreational use and abuse of drugs in the Western world. This Very Short Introduction, in its second edition, gives a non-technical account of how drugs work in the body.

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starts with descriptions of basic pharmacological concepts of drug administration and pharmacokinetics, research methodology including clinical trials, tolerance and withdrawal, drug conditioning, addiction processes, and the neuroscience of drug action. Each

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chapter applies these concepts to different classes of recreational and therapeutic drugs. Each chapter also includes a section on the history of the drug class being described to place the drugs in their historical and social context. The text is written to be understandable to students without a

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background in pharmacology,
neuroscience, or psychology. Learning
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readers should be able to: Understand
the behaviors of people who use drugs
as medicine and for recreation
Understand new trends and
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based on the best available evidence,
for healthcare staff on how to work
with people who misuse drugs
(specifically opioids, stimulants and
cannabis) to significantly improve their

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treatment and care.

The development of new drugs is very complex, costly and risky. Its success is highly dependent on an intense collaboration and interaction between many departments within the drug development organization, external investigators and service providers, in

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constant dialogue with regulatory authorities, payers, academic experts, clinicians and patient organizations. Within the different phases of the drug life cycle, drug development is by far the most crucial part for the initial and continued success of a drug on the market. This book offers an

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introduction to the field of drug development with a clear overview of the different processes that lead to a successful new medicine and of the regulatory pathways that are used to launch a new drug that are both safe and efficacious. "This is the most comprehensive and detailed book on

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drug development I have ever read and I feel that it is likely to become a staple of drug development courses, such as those taught at Masters Level in my own University.... I think in the light of increasing integration of company and academic approaches to drug development both sides can read

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this book... (and, therefore)... this book could not be more timely." —Professor Mike Coleman, University of Aston, UK (from his review of the final manuscript)

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by Adam Prus presents an introduction to the rapidly advancing field of psychopharmacology by examining how drug actions in the brain affect psychological processes. The book provides historical background to give readers an appreciation for the development of drug treatments and

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neuroscience over time, covering major topics in psychopharmacology, including new drugs and recent trends in drug use. Pedagogical features informed by the latest scholarship in teaching and learning are integrated throughout the text to ensure that readers are able to process and

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trafficking and terrorism, and an
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States drug policy. Important
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"The book An Introduction to Drug
Carriers provides a broad

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overview of drug carriers. Drug carriers play medically important roles in delivering drugs to pinpointed regions in biological systems. The cell hosts most of the disorders related to diseases. Therefore, the cell is also

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considered the main target region for most drugs. Some of the cellular compartments, especially cell-based membranes, which are geometrically constructed with both hydrophobic and hydrophilic layers/boundaries, often appear as

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barriers against vital candidate drugs' journey to the target regions. Besides, there are off-target structures that need to be avoided for drugs to get adsorbed. Otherwise, drugs may cause unbearable off-target binding

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originated toxicity, which would reduce the efficacy of the drugs. Appropriate choice of drug carriers may help specific drugs to get conjugated and be delivered to their optimal target structures. Biophysical and

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biochemical characterization of drug carriers concerning their role as vehicles to carry certain drugs may be obtained using engineering techniques.

Manipulation in the cellular sites that cause disturbances in drug

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delivery is another biomedical option utilized to ensure smooth drug delivery. Various theoretical and experimental techniques are utilized to address all these issues related to drug carriers. The collected chapters written by

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experts in the field will help the
subject matter be understood
thoroughly"--

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and Action

**The Science and Business of
Drug Discovery is written
for those who want to learn
about the biopharmaceutical
industry and its products
whatever their level of
technical knowledge. Its aim**

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is to demystify the jargon
used in drug development,
but in a way that avoids
over simplification and the
resulting loss of key
information. Each of the
twenty chapters is
illustrated with figures and

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tables which clarify some of
the more technical points
being made. Also included is
a drug discovery case
history which draws the
relevant material together
into a single chapter. In
recognizing that it is

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**difficult to navigate
through the many external
resources dealing with drug
development, the book has
been written to guide the
reader towards the most
appropriate information
sources, including those**

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**listed in the two
appendices. The following
topics are covered:**

**Different types of drugs:
from small molecules to stem
cells Background to
chemistry of small and large
molecules Historical**

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**background to drug
discovery, pharmacology and
biotechnology The drug
discovery pipeline: from
target discovery to marketed
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Material of specific
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Emerging illicit drugs pose
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to the impact of drug use
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scientific understanding of
drug action. This readable
introduction to pharmacology
is simple enough to be
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take a class to follow the
material, but can also be
used to complement a course

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in pharmacology. The approach to pharmacology is at a basic scientific level to build a framework of how drugs work supplemented with information on some representative drugs that are used clinically. Each

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**chapter includes review
questions and many chapters
include tables of important
drugs with brand and generic
names.**

**Demystifying the Jargon
Introduction to Drug
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Introduction to Biological and Small
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time, an introduction to the science

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behind successful pharmaceutical research and development programs. The book explains basic principles, then compares and contrasts approaches to both biopharmaceuticals (proteins) and small molecule drugs, presenting an overview of the business

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and management issues of these approaches. The latter part of the book provides carefully selected real-life case studies illustrating how the theory presented in the first part of the book is actually put into practice. Studies include Herceptin/T-DM1,

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erythropoietin

(Epogen/Eporex/NeoRecormon), anti-HIV protease inhibitor Darunavir, and more. Introduction to Biological and Small Molecule Drug Research and Development is intended for late-stage undergraduates or postgraduates

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pharmaceutical drug research and
development

This work bridges the
compartmentalized undergraduate
organic and biochemistry and biology
subjects to the pharmacology and the
clinical areas a modern pharmacy

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practice requires. The changes and constantly increasing responsibilities of today's pharmacist have dictated a restructuring of the pharmacy curriculum, including individual course content. This book reflects and addresses these developments. This is a

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well-written work that covers most major areas of pharmaceutical research. The text is presented in a logical and concise fashion being divided into chapters based upon therapeutic topic. This makes the work very useful for teaching a course in

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medicinal chemistry since therapeutic areas can be separately covered without having to make use of the entire book which overall contains a tremendous amount of information. This book is a significant contribution to understanding what medicinal

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chemistry is and how this science is
used to develop new therapeutic
agents.

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Society offers new perspectives on
critical debates in the field of alcohol
and other drug use. Drawing together

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work by respected scholars in
Australia, the US, the UK and Canada,
it explores social and cultural
meanings of drug use and analyses law
enforcement and public health
frameworks and objectives related to
drug policy and service provision. In

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doing so, it addresses key questions of drug use and addiction through interdisciplinary, predominantly sociological and criminological, perspectives, mapping and building on recent conceptual and empirical advances in the field. These include

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emerging scholars working at the
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Drugs

Drugs, Brains, and Behavior

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An Introduction to Behavioral
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"Drugs, Brains, and
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Timmons and Leonard W.
Hamilton. The book was
previously published by
Prentice Hall, Inc. in 1990
as "Principles of Behavioral
Pharmacology." The authors
attempt to develop an

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understanding of the
interpenetration of brain,
behavior and environment.
They discuss the chemistry
of behavior in both the
literal sense of
neurochemistry and the

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figurative sense of an
analysis of the reactions
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