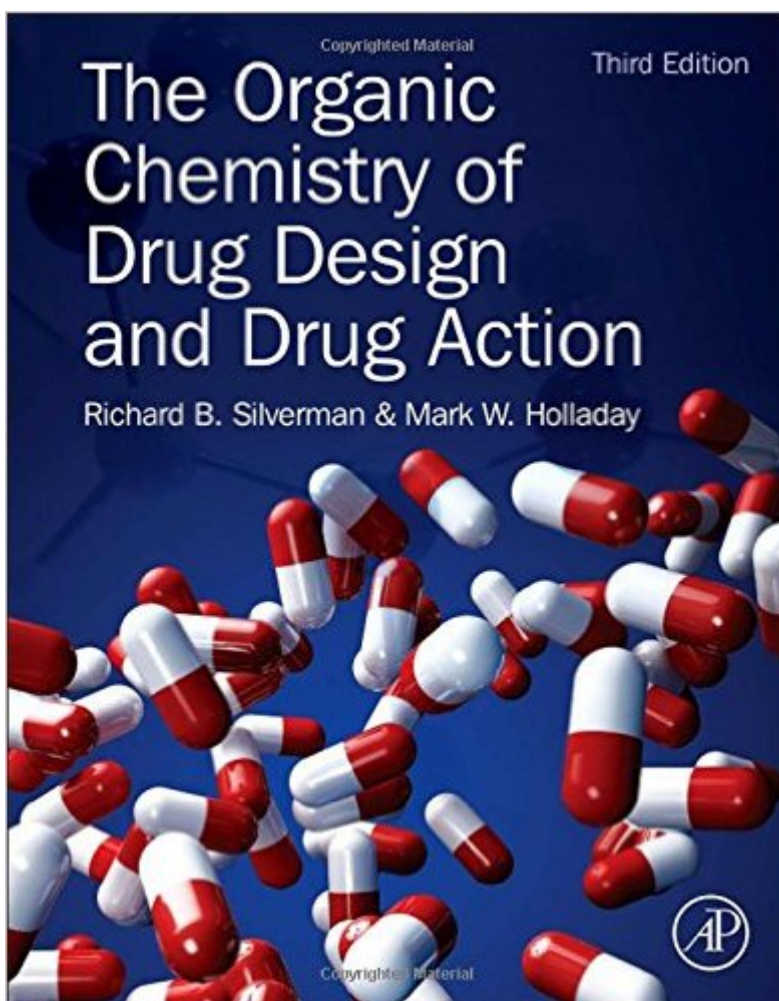


The book was found

# The Organic Chemistry Of Drug Design And Drug Action, Third Edition



## Synopsis

The Organic Chemistry of Drug Design and Drug Action, Third Edition, represents a unique approach to medicinal chemistry based on physical organic chemical principles and reaction mechanisms that rationalize drug action, which allows the reader to extrapolate those core principles and mechanisms to many related classes of drug molecules. This new edition reflects significant changes in the process of drug design over the last decade. It preserves the successful approach of the previous editions while including significant changes in format and coverage. Updates to all chapters, including new examples and references

Chapter 1 (Introduction): Completely rewritten and expanded as an overview of topics discussed in detail throughout the book

Chapter 2 (Lead Discovery and Lead Modification): Sections on sources of compounds for screening including library collections, virtual screening, and computational methods, as well as hit-to-lead and scaffold hopping; expanded sections on sources of lead compounds, fragment-based lead discovery, and molecular graphics; and deemphasized solid-phase synthesis and combinatorial chemistry

Chapter 3 (Receptors): Drug-receptor interactions, cation- $\pi$  and halogen bonding; atropisomers; case history of the insomnia drug suvorexant

Chapter 4 (Enzymes): Expanded sections on enzyme catalysis in drug discovery and enzyme synthesis

Chapter 5 (Enzyme Inhibition and Inactivation): New case histories: for competitive inhibition, the epidermal growth factor receptor tyrosine kinase inhibitor, erlotinib and Abelson kinase inhibitor, imatinib for transition state analogue inhibition, the purine nucleoside phosphorylase inhibitors, forodesine and DADMe-ImmH, as well as the mechanism of the multisubstrate analog inhibitor isoniazid for slow, tight-binding inhibition, the dipeptidyl peptidase-4 inhibitor, saxagliptin

Chapter 7 (Drug Resistance and Drug Synergism): This new chapter includes topics taken from two chapters in the previous edition, with many new examples

Chapter 8 (Drug Metabolism): Discussions of toxicophores and reactive metabolites

Chapter 9 (Prodrugs and Drug Delivery Systems): Discussion of antibody-drug conjugates

## Book Information

Hardcover: 536 pages

Publisher: Academic Press; 3 edition (June 10, 2014)

Language: English

ISBN-10: 0123820308

ISBN-13: 978-0123820303

Product Dimensions: 8.7 x 1.2 x 11.2 inches

Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 4.4 out of 5 stars Â Â See all reviews Â (8 customer reviews)

Best Sellers Rank: #212,223 in Books (See Top 100 in Books) #3 in Â Books > Medical Books > Pharmacology > Chemistry #40 in Â Books > Science & Math > Chemistry > Industrial & Technical #94 in Â Books > Textbooks > Engineering > Chemical Engineering

## Customer Reviews

wonderful book the concepts are explained easy and clear for you to understand Even if chemistry isn't your best subject. Love the examples at the end of the chapter to test your understanding. the author is very knowledgeable on drug design.

Brand new like I expected and it's really good, you just need a professor ti explain some of the examples

Well thought out and referenced, if you are interested in drug design you should have this book

perfect for reading

[Download to continue reading...](#)

Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) The Organic Chemistry of Drug Design and Drug Action, Third Edition The Organic Chemistry of Drug Design and Drug Action The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) Third Eye: Awakening Your Third Eye Chakra: Beginner's Guide (Third Eye, Third Eye Chakra, Third Eye Awakening, Chakras) Third Eye: Third Eye Activation Secrets (Third Eye Awakening, Pineal Gland, Third Eye Chakra, Open Third Eye) Organic Body Care Recipes Box Set: Organic Body Scrubs, Organic Lip Balms, Organic Body Butter, And Natural Skin Care Recipes Organic Chemistry Eighth Edition (Solutions Manual to Accompany Organic Chemistry Eighth Edition Portland State University) Organic High Pressure Chemistry (Studies in Organic Chemistry) Experimental Organic Chemistry: A Miniscale & Microscale Approach (Cengage Learning Laboratory Series for Organic Chemistry) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review Computer Organization and Design, Third Edition: The Hardware/Software Interface, Third Edition (The Morgan Kaufmann Series in Computer Architecture and Design) Ace General Chemistry I: The

EASY Guide to Ace General Chemistry I: (General Chemistry Study Guide, General Chemistry Review) In Silico Medicinal Chemistry: Computational Methods to Support Drug Design (Theoretical and Computational Chemistry Series) Organic Homemade Lotion Recipes - For All Skin Types (The Best Lotion DIY Recipes): Lotion Making For Beginners (organic lawn care manual, organic skin care, beauty and the beast) Review of Organic Functional Groups: Introduction to Medicinal Organic Chemistry Molecular Visions (Organic, Inorganic, Organometallic) Molecular Model Kit #1 by Darling Models to accompany Organic Chemistry A Microscale Approach to Organic Laboratory Techniques (Brooks/Cole Laboratory Series for Organic Chemistry) Introduction to Organic Laboratory Techniques: A Microscale Approach (Brooks/Cole Laboratory Series for Organic Chemistry) Introduction to Organic Laboratory Techniques: A Small-Scale Approach (Brooks/Cole Laboratory Series for Organic Chemistry)

[Dmca](#)