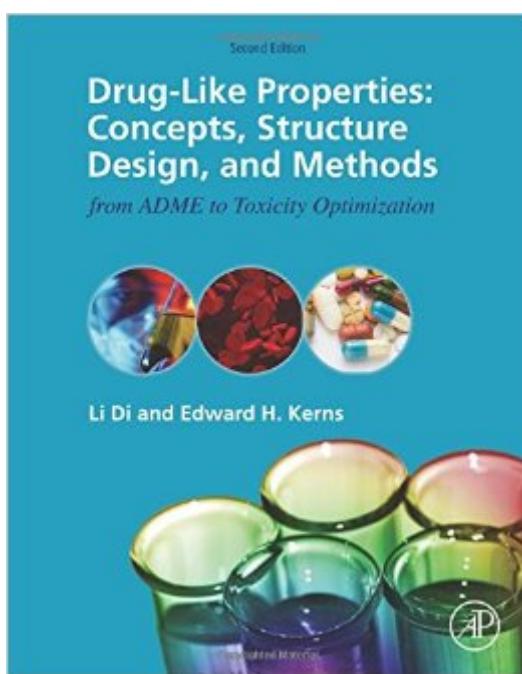


The book was found

Drug-Like Properties, Second Edition: Concepts, Structure Design And Methods From ADME To Toxicity Optimization



Synopsis

Of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target, only a fraction have sufficient ADME (absorption, distribution, metabolism, elimination) properties, and acceptable toxicology properties, to become a drug product that will successfully complete human Phase I clinical trials. *Drug-Like Properties: Concepts, Structure Design and Methods from ADME to Toxicity Optimization, Second Edition*, provides scientists and students the background and tools to understand, discover, and develop optimal clinical candidates. This valuable resource explores physiochemical properties, including solubility and permeability, before exploring how compounds are absorbed, distributed, and metabolized safely and stably. Review chapters provide context and underscore the importance of key concepts such as pharmacokinetics, toxicity, the blood-brain barrier, diagnosing drug limitations, prodrugs, and formulation. Building on those foundations, this thoroughly updated revision covers a wide variety of current methods for the screening (high throughput), diagnosis (medium throughput) and in-depth (low throughput) analysis of drug properties for process and product improvement. From conducting key assays for interpretation and structural analysis, the reader learns to implement modification methods and improve each ADME property. Through valuable case studies, structure-property relationship descriptions, and structure modification strategies, *Drug-Like Properties, Second Edition*, offers tools and methods for ADME/Tox scientists through all aspects of drug research, discovery, design, development, and optimization. Provides a comprehensive and valuable working handbook for scientists and students in medicinal chemistry. Includes expanded coverage of pharmacokinetics fundamentals and effects. Contains updates throughout, including the authors' recent work in the importance of solubility in drug development; new and currently used property methods, with a reduction of seldom-used methods; and exploration of computational modeling methods.

Book Information

Hardcover: 580 pages

Publisher: Academic Press; 2 edition (January 27, 2016)

Language: English

ISBN-10: 0128010762

ISBN-13: 978-0128010761

Product Dimensions: 8.6 x 1.3 x 10.9 inches

Shipping Weight: 1.6 pounds ([View shipping rates and policies](#))

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,021,752 in Books (See Top 100 in Books) #43 in Books > Medical Books > Pharmacology > Chemistry #769 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Pharmacology #810 in Books > Science & Math > Chemistry > Organic

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

Drug-Like Properties, Second Edition: Concepts, Structure Design and Methods from ADME to Toxicity Optimization ADME-Enabling Technologies in Drug Design and Development ACT LIKE A LADY, THINK LIKE A MAN:By Steve Harvey:Act Like a Lady, Think Like a Man: What Men Really Think About Love, Relationships, Intimacy, and Commitment [Hardcover] 1st Edition Metabolism, Pharmacokinetics and Toxicity of Functional Groups: Impact of Chemical Building Blocks on ADMET (Drug Discovery) Dental Materials: Properties and Manipulation, 9e (Dental Materials: Properties & Manipulation (Craig)) Switching Power Supply Design and Optimization, Second Edition Metabolic Activation and Toxicity of Chemical Agents to Lung Tissue and Cells Genetic Heavy Metal Toxicity: Explaining SIDS, Autism, Tourette's, Alzheimer's and Other Epidemics ISO 6341:1996, Water quality - Determination of the inhibition of the mobility of Daphnia magna Straus (Cladocera, Crustacea) - Acute toxicity test Selective Toxicity: The Physico-Chemical Basis of Therapy Ceramic and Glass Materials: Structure, Properties and Processing Electronic Structure and the Properties of Solids: The Physics of the Chemical Bond (Dover Books on Physics) Carbon Nanotubes: Advanced Topics in the Synthesis, Structure, Properties and Applications (Topics in Applied Physics) Properties of Materials: Anisotropy, Symmetry, Structure Nonlinear Programming: Concepts, Algorithms, and Applications to Chemical Processes (MPS-SIAM Series on Optimization) Treatise on Controlled Drug Delivery: Fundamentals-optimization-applications Fatigue and Tribological Properties of Plastics and Elastomers, Second Edition (Plastics Design Library) Plastics in Medical Devices, Second Edition: Properties, Requirements, and Applications (Plastics Design Library) The Organic Chemistry of Drug Design and Drug Action, Third Edition Practical Optimization Methods: With Mathematica® Applications

[Dmca](#)