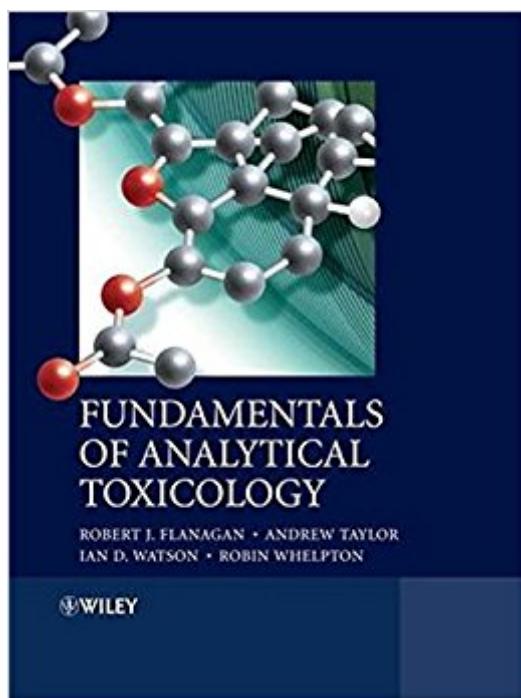


The book was found

# Fundamentals Of Analytical Toxicology



## Synopsis

The analytical toxicologist may be required to detect, identify, and in many cases measure a wide variety of compounds in samples from almost any part of the body or in related materials such as residues in syringes or in soil. This book gives principles and practical information on the analysis of drugs and poisons in biological specimens, particularly clinical and forensic specimens. After providing some background information the book covers aspects of sample collection, transport, storage and disposal, and sample preparation. Analytical techniques - colour tests and spectrophotometry, chromatography and electro- $\text{A}$ -phoresis, mass spectrometry, and immunoassay  $\text{A}$ re covered in depth, and a chapter is devoted to the analysis of trace elements and toxic metals. General aspects of method implementation/validation and laboratory operation are detailed, as is the role of the toxicology laboratory in validating and monitoring the performance of point of care testing (POCT) devices. The book concludes with reviews of xenobiotic absorption, distribution and metabolism, pharmacokinetics, and general aspects of the interpretation of analytical toxicology results. A clearly written, practical, integrated approach to the basics of analytical toxicology. Focuses on analytical, statistical and pharmacokinetic principles rather than detailed applications. Assumes only a basic knowledge of analytical chemistry. An accompanying website provides additional material and links to related sites. Written by an experienced team of authors, *Fundamentals of Analytical Toxicology* is an invaluable resource for those starting out in a career in analytical toxicology across a wide range of disciplines including clinical and forensic science, food safety, and pharmaceutical development.  $\text{A}$  Praise from the reviews:  $\text{A}$  "This is an ambitious effort to describe in detail the many and varied aspects of the science of toxicological analysis. The 17 chapters cover every foreseeable aspect, from specimen collection through analytical techniques and quality control to pharmacological principles and interpretation of results. The authors bring together a great deal of experience in the field and have succeeded admirably in achieving their goal: "to give principles and practical information on the analysis of drugs, poisons and other relevant analytes in biological specimens...". The book is very readable and quite up-to-date, and contains many illustrative figures, charts and tables. Both the student and the practicing professional would do well to study this material carefully, as there is something here for every conceivable level of interest.  $\text{A}$   $\text{A}$  Review from Randall Baselt "This text comes highly recommended for any analytical toxicology trainee." The Bulletin of the Royal College of Pathologists  $\text{A}$  "Overall, this book provides a comprehensive, thorough, clear, up to date and practical treatment of analytical toxicology at a high standard.  $\text{A}$  Understanding of the text is enhanced by the use of many illustrations.  $\text{A}$  Specifications, guidelines, and methods are

highlighted in grey background "Boxes". The many and up to date literature references in each chapter demonstrate the authors' thorough work and permit easy access to deeper information. Therefore this book can be highly recommended as a valuable source of knowledge in analytical toxicology both as an introduction and for the advanced reader.

GTFC Bulletin "Toxicchem + Krimtech", May 2008 (translated, original review in German) "Many toxicologists will add this important reference to their libraries because it competently fills a need ...". International Journal of Toxicology "The book is very well illustrated, easy to understand and pleasant to read, and contains a wealth of dedicated information." International Journal of Environmental Analytical Chemistry

## Book Information

Paperback: 544 pages

Publisher: Wiley-Interscience; 1 edition (March 3, 2008)

Language: English

ISBN-10: 0470319356

ISBN-13: 978-0470319352

Product Dimensions: 7.5 x 1.2 x 9.8 inches

Shipping Weight: 2.3 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #455,774 in Books (See Top 100 in Books) #49 in Books > Textbooks > Medicine & Health Sciences > Medicine > Basic Sciences > Toxicology #87 in Books > Medical Books > Pharmacology > Toxicology #123 in Books > Science & Math > Chemistry > Industrial & Technical

## Customer Reviews

This book will be an excellent text for those studying analytical science or forensic science courses. It is well presented and easy to read, and contains detailed information throughout. I would recommend this text to both students and professionals in the fields of analytical science and toxicology. (Reviews, May 2009) "This text comes highly recommended for any analytical toxicology trainee." (The Bulletin of the Royal College of Pathologists, April 2009) "The book will be welcomed in the resource arsenal of the practicing toxicologist. Many toxicologists will add this important reference to their libraries because it competently fills a need at an acceptable cost." (International Journal of Toxicology, September 2008) "The book is very well illustrated, easy to

understand and pleasant to read, and contains a wealth of dedicated information." (International Journal of Environmental and Analytical Chemistry, August 2008)

The analytical toxicologist may be required to detect, identify, and in many cases measure a wide variety of compounds in samples from almost any part of the body or in related materials such as residues in syringes or in soil. This book aims to give principles and practical information on the analysis of drugs and poisons in biological specimens, particularly clinical and forensic specimens. After providing some background information the book covers aspects of sample collection, transport, storage and disposal, and sample preparation. Analytical techniques - colour tests and spectrophotometry, chromatography and electro- $\text{A}$ -phoresis, mass spectrometry, and immunoassay  $\text{A}$ re covered in depth, and a chapter is devoted to the analysis of trace elements and toxic metals. General aspects of method implementation/validation and laboratory operation are detailed, as is the role of the toxicology laboratory in validating and monitoring the performance of point of care testing (POCT) devices. The book concludes with reviews of xenobiotic absorption, distribution and metabolism, pharmacokinetics, and general aspects of the interpretation of analytical toxicology results. A clearly written, practical, integrated approach to the basics of analytical toxicology. Focuses on analytical, statistical and pharmacokinetic principles rather than detailed applications. Assumes only a basic knowledge of analytical chemistry. An accompanying website provides additional material and links to related sites [www.wiley.com/go/flanagan/toxicology](http://www.wiley.com/go/flanagan/toxicology).

Written by an experienced team of authors, this book will prove invaluable for those starting out in a career in analytical toxicology across a wide range of disciplines including clinical and forensic science, food safety, and pharmaceutical development.

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

Fundamentals of Analytical Toxicology Developmental Toxicology (Target Organ Toxicology Series)  
Casarett & Doull's Essentials of Toxicology, Second Edition (Casarett and Doull's Essentials of Toxicology) Toxicology in the Middle Ages and Renaissance (History of Toxicology and Environmental Health) Complications of Viral & Mycoplasmal Infections in Rodents to Toxicology Research & Testing (Chemical Industry Institute of Toxicology Series) Reproductive Toxicology, Third Edition (Target Organ Toxicology Series) Toxicology of the Liver, Second Edition (Target Organ Toxicology Series) Treatise on Pulmonary Toxicology, Volume I: Comparative Biology of the Normal Lung (Discontinued (Treatise on Pulmonary Toxicology)) Clarke's Analytical Forensic Toxicology The Analytical Chemistry of Cannabis: Quality Assessment, Assurance, and Regulation of Medicinal Marijuana and Cannabinoid Preparations (Emerging Issues in Analytical Chemistry)

Fundamentals Of Aquatic Toxicology: Effects, Environmental Fate And Risk Assessment  
Fundamentals of Analytical Chemistry Student Solutions Manual for Skoog/West/Holler/Crouch's  
Fundamentals of Analytical Chemistry, 9th Fundamentals of Analytical Chemistry (with CD-ROM  
and InfoTrac) Fundamentals of Electro-Analytical Chemistry Plastic Injection Molding: Product  
Design & Material Selection Fundamentals (Vol II: Fundamentals of Injection Molding)  
(Fundamentals of injection molding series) Plastic Injection Molding: Mold Design and Construction  
Fundamentals (Fundamentals of Injection Molding) (2673) (Fundamentals of injection molding  
series) Drug-Induced Ocular Side Effects: Clinical Ocular Toxicology, 7e The Spinal cord and its  
reaction to traumatic injury: Anatomy, physiology, pharmacology, therapeutics (Modern  
pharmacology-toxicology) The Toxicology and Biochemistry of Insecticides

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)