

Pharmaceutical Analysis Watson 3rd Edition

Understanding Behaviorism is a classic textbook that explains the basis of behavior analysis and its application to human problems in a scholarly but accessible manner. Now in its third edition, the text has been substantially updated to include the latest developments over the last decade in behaviour analysis, evolutionary theory, and cultural evolution theory. The only book available that explains behavior analysis and applies it to philosophical and practical problems, written by one of today's best-known and most highly respected behaviorists. Explores ancient concepts such as purpose, language, knowledge, and thought, as well as applying behavioural thinking to contemporary social issues like freedom, democracy, and culture. Part of the new evolutionary perspective for understanding individual behavior in general and culture in particular – culminates with practical approaches to improving the lives of all humanity.

This introductory text highlights the most important aspects of a wide range of techniques used in the control of the quality of pharmaceuticals. Written with the needs of the student in mind, this clear, practical guide includes self-testing sections with arithmetical examples and tests to help students brush up on their arithmetical skills in an applied context. Covers all of the most important analysis techniques in one book. Concentrates on the most important points with just the right level of detail.

Summarizes the relevant theory but avoids becoming too esoteric. Features chapter summaries, key points and self-assessment boxes. Includes arithmetical calculations of results in the self-assessment exercises. Additional section on basic calculations in pharmaceutical analysis. More detail on the capillary electrophoresis of proteins. A discussion of some of the new types of HPLC column and on solvent selectivity in HPLC. Additional material inserted on the control of the quality of analytical methods, mass spectrometry and high pressure liquid chromatography. Additional self-assessment exercises.

Pharmaceutical Analysis E-Book: A Textbook for Pharmacy Students and Pharmaceutical Chemists. Elsevier Health Sciences. *Aerosol Measurement: Principles, Techniques, and Applications* Third Edition is the most detailed treatment available of the latest aerosol measurement methods. Drawing on the know-how of numerous expert contributors; it provides a solid grasp of measurement fundamentals and practices a wide variety of aerosol applications. This new edition is updated to address new and developing applications of aerosol measurement, including applications in environmental health, atmospheric science, climate change, air pollution, public health, nanotechnology, particle and powder technology, pharmaceutical research and development, clean room technology (integrated circuit manufacture), and nuclear waste management.

Handbook of Modern Pharmaceutical Analysis, Second Edition, synthesizes the complex research and recent changes in the field, while covering the techniques and technology required for today's laboratories. The work integrates strategy, case studies, methodologies, and implications of new regulatory structures, providing complete coverage of quality assurance from the point of discovery to the point of use. Treats pharmaceutical analysis (PA) as an integral partner to the drug development process rather than as a service to it. Covers method development, validation, selection, testing, modeling, and simulation studies combined with advanced exploration of assays, impurity testing, biomolecules, and chiral separations. Features detailed coverage of QA, ethics, and regulatory guidance (quality by design, good manufacturing practice), as well as high-tech methodologies and technologies from "lab-on-a-chip" to LC-MS, LC-NMR, and LC-NMR-MS.

Pharmaceutical formulations have evolved from simple and traditional systems to more modern and complex novel dosage forms. Formulation development is a tedious process and requires an enormous amount of effort from many different people. Developing a stable novel dosage form and further targeting it to the desired site inside the body has always been a challenge. The purpose of this book is to bring together scholarly articles that highlight recent developments and trends in pharmaceutical formulation science. Each article has been written by authors specializing in the subject area and hailing from top institutions around the world. The book has been written in a systematic and lucid style explaining all basic concepts and fundamentals in a very simple way. This book aims to serve the need of all individuals involved at any level in the pharmaceutical dosage form development. I sincerely hope that the book will be liked by inquisitive students and learned colleagues.

"Bovine Medicine, 3rd Edition, offers practicing large animal veterinarians and veterinary students the most comprehensive reference to the core aspects of contemporary cattle health and husbandry available today"--Provided by publisher.

This revised second edition covers the pharmacologic 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 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 by the American Board of Clinical Pharmacology. This unique reference is recommended by the Board as a study text and includes modules on drug discovery and development to assist students as well as practicing pharmacologists. Unique breadth of coverage ranging from drug discovery and development to individualization and quality assessment of drug therapy. Unusual cohesive of presentation that stems from author participation in an ongoing popular NIH course. Instructive linkage of pharmacokinetic 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 pharmaceutical industry. Expanded coverage of pharmacogenetics. Expanded coverage of drug transporters and their role in interactions. Inclusion of new material on enzyme induction mechanisms in chapters on drug metabolism and drug interactions. A new chapter on drug discovery that focuses on oncologic agents. Inclusion of therapeutic antibodies in chapter on biotechnology products.

The only comprehensive reference on this popular and rapidly developing technique provides a detailed overview, ranging from fundamentals to applications, including a section on the evaluation of GC-MS analyses. As such, it covers all aspects, including the theory and principles, as well as a broad range of real-life examples taken from laboratories in environmental, food, pharmaceutical and clinical analysis. It also features a glossary of approximately 300 terms and a substance index that facilitates finding a specific application. For this new edition the work has been now extended to two volumes, reflecting the latest developments in the technique and related instrumentation, while also incorporating several new examples of applications in many fields. The first two editions were very well received, making this handbook a must-have in all analytical laboratories using GC-MS.

Analyzing Media Messages provides a comprehensive and comprehensible guide to conducting content analysis research. It establishes a formal definition of quantitative content analysis; gives step-by-step instruction on designing a content analysis study; and explores in depth research questions that recur in content analysis, in such areas as measurement, sampling, reliability, data analysis, validity, and technology. This Second Edition maintains the concise, accessible approach of the first edition while offering an updated discussion and new examples. The goal of this resource is to make content analysis understandable, and to produce a useful guide for novice and experienced researchers.

alike. Accompanied by detailed, practical examples of current and classic applications, this volume is appropriate for use as a primary text for content analysis coursework, or as a supplemental text in research methods courses. It is also an indispensable reference for researchers in mass communication fields, political science, and other social and behavioral sciences.

This book provides an overview of the state of the art in pharmaceutical applications of UV-VIS spectroscopy. This book presents the fundamentals for the beginner and, for the expert, discusses both qualitative and quantitative analysis problems. Several chapters focus on the determination of drugs in various matrices, the coupling of chromatographic and spectrophotometric methods, and the problems associated with the use of chemical reactions prior to spectrophotometric measurements. The final chapter provides a survey of the spectrophotometric determination of the main families of drugs, emphasizing the achievements of the last decade.

ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- In *Statistics for Business: Decision Making and Analysis*, authors Robert Stine and Dean Foster of the University of Pennsylvania's Wharton School, take a sophisticated approach to teaching statistics in the context of making good business decisions. The authors show students how to recognize and understand each business question, use statistical tools to do the analysis, and how to communicate their results clearly and concisely. In addition to providing cases and real data to demonstrate real business situations, this text provides resources to support understanding and engagement. A successful problem-solving framework in the 4-M Examples (Motivation, Method, Mechanics, Message) model a clear outline for solving problems, new What Do You Think questions give students an opportunity to stop and check their understanding as they read, and new learning objectives guide students through each chapter and help them to review major goals. Software Hints provide instructions for using the most up-to-date technology packages. The Second Edition also includes expanded coverage and instruction of Excel® 2010.

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 electrophoresis, mass spectrometry, and immunoassay ? are 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. Praise from the reviews: "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." Review from Randall Baselt "This text comes highly recommended for any analytical toxicology trainee." *The Bulletin of the Royal College of Pathologists* "Overall, this book provides a comprehensive, thorough, clear, up to date and practical treatment of analytical toxicology at a high standard. Understanding of the text is enhanced by the use of many illustrations. 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." *GTFCh 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*

Mass Spectrometry is an ideal textbook for students and professionals as well as newcomers to the field. Starting from the very first principles of gas-phase ion chemistry and isotopic properties, the textbook takes the reader through the design of mass analyzers and ionization methods all the way to mass spectral interpretation and coupling techniques. Step-by-step, the reader learns how mass spectrometry works and what it can do. The book comprises a balanced mixture of practice-oriented information and theoretical background. It features a clear layout and a wealth of high-quality figures. Exercises and solutions are located on the Springer Global Web.

Intermediate Statistics fully integrates SAS and SPSS. The chapter on factorial ANOVA features thorough discussions of the unequal cell size case and interpreting effects in three-way designs, and an extensive computer example of real data which integrates many of the concepts. In addition, there are substantial chapters on covariance and repeated measures analysis. Special features of this second edition include: *a new chapter on multiple regression; *inclusion of SPSS for Windows 8.0 and Statview; and *Pass 6.0 for power analysis.

The aim of this book is to present a range of analytical methods that can be used in formulation design and development and focus on how these systems can be applied to understand formulation components and the dosage form these build. To effectively design and exploit drug delivery systems, the underlying characteristic of a dosage form must be understood--from the characteristics of the individual formulation components, to how they act and interact within the formulation, and finally, to how this formulation responds in different biological environments. To achieve this, there is a wide range of analytical techniques that can be adopted to understand and elucidate the mechanics of drug delivery and drug formulation. Such methods include e.g. spectroscopic analysis, diffractometric analysis, thermal investigations, surface analytical techniques, particle size analysis, rheological techniques, methods to characterize drug stability and release, and biological analysis in appropriate cell and animal models. Whilst each of these methods can encompass a full research area in their own right, formulation scientists must be able to effectively apply these methods to the delivery system they are considering. The information in this book is designed to support researchers in their ability to fully characterize and analyze a range of delivery systems, using an appropriate selection of analytical techniques. Due to its consideration of regulatory approval, this book will also be suitable for industrial researchers both at early stage up to pre-clinical research.

Introduce your students to the latest advances in spectroscopy with the text that has set the standard in the field for more than three decades: *INTRODUCTION TO SPECTROSCOPY, 5e*, by Donald L. Pavia, Gary M. Lampman, George A. Kriz, and James R. Vyvyan. Whether you use the book as a primary text in an upper-level spectroscopy course or as a companion book with an organic chemistry text, your students will receive an unmatched, systematic introduction to spectra and basic theoretical concepts in spectroscopic methods. This acclaimed resource features up-to-date spectra; a modern presentation of one-dimensional nuclear magnetic resonance (NMR) spectroscopy; an introduction to biological molecules in mass spectrometry; and coverage of modern techniques alongside DEPT, COSY, and HECTOR. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Banish your fears of statistical analysis using this clearlywritten and highly successful textbook. *Statistics for Veterinary and Animal Science Third Edition* is an introductory text which assumes no previous knowledge of statistics. It starts with very basic methodology and builds on it to encompass some of the more advanced techniques that are currently used. This book will enable you to handle numerical data and critically appraise the veterinary and animal science literature. Written in a non-mathematical way, the emphasis is on understanding the underlying concepts and correctly interpreting computer output, and not on working through mathematical formulae. Key features: Flow charts are provided to enable you to choose the correct statistical analyses in different situations. Numerous real worked examples are included to help you master the procedures. Two statistical packages, SPSS and Stata, are used to analyse data to familiarise you with typical computer output. The data sets from the examples in the book are available as electronic files to download from the book's companion website in ASCII, Excel, SPSS, Stata and R Workspace formats, allowing you to practice using your own software and fully get to grips with the techniques. A clear indication is provided of the more advanced or obscure topics so that, if desired, you can skip them without loss of continuity. New to this edition: New chapter on reporting guidelines relevant to veterinary medicine as a ready reference for those wanting to follow best practice in planning and writing up research. New chapter on critical appraisal of randomized controlled trials and observational studies in the published literature: a template is provided which is used to critically appraise two papers. New chapter introducing specialist topics: ethical issues of animal investigations, spatial statistics, veterinary surveillance, and statistics in molecular and quantitative genetics. Expanded glossaries of notation and terms. Additional exercises and further explanations added throughout to make the book more comprehensive. Carrying out statistical procedures and interpreting the results is an integral part of veterinary and animal science. This is the only book on statistics that is specifically written for veterinary science and animal science students, researchers and practitioners.

This comprehensive book covers a wide range of subjects relevant to pharmacy practice, including communication skills, managing a business, quality assurance, dispensing, calculations, packaging, storage and labeling of medicines, sterilization, prescriptions, hospital-based services, techniques and treatments, adverse drug reactions, pharmacoconomics, and medicines management. Features useful appendices on medical abbreviations, pharmaceutical Latin terms, weights and measures, and presentation skills. This is a core text for pharmacy practice and dispensing modules of the pharmacy curriculum. Covers key exam material for essential review and test preparation. Features a user-friendly design with clear headings, chapter summaries, helpful boxes, and key points. Text restructured with 14 new or radically revised chapters. All text revised in light of current pharmaceutical practice. New design using two colours.

This User's Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User's Guide was created by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DEcIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews. The expanded and fully updated second edition includes detailed coverage of additional flag states; an examination of the implications of the ISM and ISPS Codes and the requirements of the Large Yacht Code as they relate to ship registration; a new introductory chapter describing the legal and practical requirements of ship registration; and a fresh analysis of the status and usage of national and open registries in current practice.

This book brings together mathematics education research that makes a difference in both theory and practice - research that anticipates problems and needed knowledge before they become impediments to progress.

A valuable new edition of a standard reference. The use of statistical methods for categorical data has increased dramatically, particularly for applications in the biomedical and social sciences. *An Introduction to Categorical Data Analysis, Third Edition* summarizes these methods and shows readers how to use them using software. Readers will find a unified generalized linear models approach that connects logistic regression and loglinear models for discrete data with normal regression for continuous data. Adding to the value in the new edition is: • Illustrations of the use of R software to perform all the analyses in the book • A new chapter on alternative methods for categorical data, including smoothing and regularization methods (such as the lasso), classification methods such as linear discriminant analysis and classification trees, and cluster analysis • New sections in many chapters introducing the Bayesian approach for the methods of that chapter • More than 70 analyses of data sets to illustrate application of the methods, and about 200 exercises, many containing other data sets • An appendix showing how to use SAS, Stata, and SPSS, and an appendix with short solutions to most odd-numbered exercises. Written in an applied, nontechnical style, this book illustrates the methods using a wide variety of real data, including medical clinical trials, environmental questions, drug use by teenagers, horseshoe crab mating, basketball shooting, correlates of happiness, and much more. *An Introduction to Categorical Data Analysis, Third Edition* is an invaluable tool for statisticians and biostatisticians as well as methodologists in the social and behavioral sciences, medicine and public health, marketing, education, and the biological and agricultural sciences.

An introductory text, written with the needs of the student in mind, which explains all the most important techniques used in the analysis of pharmaceuticals - a key procedure in ensuring the quality of drugs. The text is enhanced throughout with keypoints and self-assessment boxes, to aid student learning.

The second edition of the Encyclopedia of Toxicology continues its comprehensive survey of toxicology. This new edition continues to present entries devoted to key concepts and specific chemicals. There has been an increase in entries devoted to international organizations and well-known toxic-related incidents such as Love Canal and Chernobyl. Along with the traditional scientifically based entries, new articles focus on the societal implications of toxicological knowledge including environmental crimes, chemical and biological warfare in ancient times, and a history of the U.S. environmental movement. With more than 1150 entries, this second edition has been expanded in length, breadth and depth, and provides an extensive overview of the many facets of toxicology. Also available online via ScienceDirect – featuring extensive browsing, searching, and internal cross-referencing between articles in the work, plus dynamic linking to journal articles and abstract databases, making navigation flexible and easy. For more information, pricing options and availability visit www.info.sciencedirect.com. *Second edition has been expanded to 4 volumes *Encyclopedic A-Z arrangement of chemicals and all core areas of the science of toxicology *Covers related areas such as organizations, toxic accidents, historical and social issues, and laws *New topics covered include computational toxicology, cancer potency factors, chemical accidents, non-lethal chemical weapons, drugs of abuse, and consumer products and many more!

Organic Chemistry Concepts and Applications for Medicinal Chemistry provides a valuable refresher for understanding the relationship between chemical bonding and those molecular properties that help to determine medicinal activity. This book explores the basic aspects of structural organic chemistry without going into the various classes of reactions. Two medicinal chemistry concepts are also introduced: partition coefficients and the nomenclature of cyclic and polycyclic ring systems that comprise a large number of drug molecules. Given the systematic name of a drug, the reader is guided through the process of drawing an accurate chemical structure. By emphasizing the relationship between structure and properties, this book gives readers the connections to more fully comprehend, retain, apply, and build upon their organic chemistry background in further chemistry study, practice, and exams. Focused approach to review those organic chemistry concepts that are most important for medicinal chemistry practice and understanding Accessible content to refresh the reader's knowledge of bonding, structure, functional groups, stereochemistry, and more Appropriate level of coverage for students in organic chemistry, medicinal chemistry, and related areas; individuals seeking content review for graduate and medical courses and exams; pharmaceutical patent attorneys; and chemists and scientists requiring a review of pertinent material

This is thirty-fifth edition of Martindale, which provides reliable, and evaluated information on drugs and medicines used throughout the world. It contains encyclopaedic facts about drugs and medicines, with: 5,500 drug monographs; 128,000 preparations; 40,700 reference citations; 10,900 manufacturers. There are synopses of disease treatments which enables identification of medicines, the local equivalent and the manufacturer. It also Includes herbals, diagnostic agents, radiopharmaceuticals, pharmaceutical excipients, toxins, and poisons as well as drugs and medicines. Based on published information and extensively referenced

the definitive guide to the theory and practice of water treatment engineering THIS NEWLY REVISED EDITION of the classic reference provides complete, up-to-date coverage of both theory and practice of water treatment system design. The Third Edition brings the field up to date, addressing new regulatory requirements, ongoing environmental concerns, and the emergence of pharmacological agents and other new chemical constituents in water. Written by some of the foremost experts in the field of public water supply, Water Treatment, Third Edition maintains the book's broad scope and reach, while reorganizing the material for even greater clarity and readability. Topics span from the fundamentals of water chemistry and microbiology to the latest methods for detecting constituents in water, leading-edge technologies for implementing water treatment processes, and the increasingly important topic of managing residuals from water treatment plants. Along with hundreds of illustrations, photographs, and extensive tables listing chemical properties and design data, this volume: Introduces a number of new topics such as advanced oxidation and enhanced coagulation Discusses treatment strategies for removing pharmaceuticals and personal care products Examines advanced treatment technologies such as membrane filtration, reverse osmosis, and ozone addition Details reverse osmosis applications for brackish groundwater, wastewater, and other water sources Provides new case studies demonstrating the synthesis of full-scale treatment trains A must-have resource for engineers designing or operating water treatment plants, Water Treatment, Third Edition is also useful for students of civil, environmental, and water resources engineering.

Completely revised and updated, this text provides an easy-to-read guide to the concept of mass spectrometry and demonstrates its potential and limitations. Written by internationally recognised experts and utilising "real life" examples of analyses and applications, the book presents real cases of qualitative and quantitative applications of mass spectrometry. Unlike other mass spectrometry texts, this comprehensive reference provides systematic descriptions of the various types of mass analysers and ionisation, along with corresponding strategies for interpretation of data. The book concludes with a comprehensive 3000 references. This multi-disciplined text covers the fundamentals as well as recent advance in this topic, providing need-to-know information for researchers in many disciplines including pharmaceutical, environmental and biomedical analysis who are utilizing mass spectrometry

This is a comprehensive textbook for students of cinema. It provides a guide to the main concepts used to analyse the film industry and film texts, and also introduces some of the world's key national cinemas.

A stunning and provocative new novel by the internationally celebrated author of *The Blind Assassin*, winner of the Booker Prize. Margaret Atwood's new novel is so utterly compelling, so prescient, so relevant, so terrifyingly-all-too-likely-

to-be-true, that readers may find their view of the world forever changed after reading it. This is Margaret Atwood at the absolute peak of her powers. For readers of *Oryx and Crake*, nothing will ever look the same again. The narrator of Atwood's riveting novel calls himself Snowman. When the story opens, he is sleeping in a tree, wearing an old bedsheet, mourning the loss of his beloved Oryx and his best friend Crake, and slowly starving to death. He searches for supplies in a wasteland where insects proliferate and pigoons and wolvogs ravage the pleeblands, where ordinary people once lived, and the Compounds that sheltered the extraordinary. As he tries to piece together what has taken place, the narrative shifts to decades earlier. How did everything fall apart so quickly? Why is he left with nothing but his haunting memories? Alone except for the green-eyed Children of Crake, who think of him as a kind of monster, he explores the answers to these questions in the double journey he takes - into his own past, and back to Crake's high-tech bubble-dome, where the Paradise Project unfolded and the world came to grief. With breathtaking command of her shocking material, and with her customary sharp wit and dark humour, Atwood projects us into an outlandish yet wholly believable realm populated by characters who will continue to inhabit our dreams long after the last chapter.

Recent advances in the pharmaceutical sciences and biotechnology have facilitated the production, design, formulation and use of various types of pharmaceuticals and biopharmaceuticals. This book provides detailed information on the background, basic principles, and components of techniques used for the analysis of pharmaceuticals and biopharmaceuticals. Focusing on those analytical techniques that are most frequently used for pharmaceuticals, it classifies them into three major sections and 19 chapters, each of which discusses a respective technique in detail. Chiefly intended for graduate students in the pharmaceutical sciences, the book will familiarize them with the components, working principles and practical applications of these indispensable analytical techniques.

Completely revised and updated *Pharmaceutical Microbiology* continues to provide the essential resource for the 21st century pharmaceutical microbiologist "....a valuable resource for junior pharmacists grasping an appreciation of microbiology, microbiologists entering the pharmaceutical field, and undergraduate pharmacy students." *Journal of Antimicrobial Chemotherapy* ".....highly readable. The content is comprehensive, with well-produced tables, diagrams and photographs, and is accessible through the extensive index." *Journal of Medical Microbiology* WHY BUY THIS BOOK?

Completely revised and updated to reflect the rapid pace of change in the teaching and practice of pharmaceutical microbiology Expanded coverage of modern biotechnology, including genomics and recombinant DNA technology Updated information on newer antimicrobial agents and their mode of action Highly illustrated with structural formulas of organic compounds and flow diagrams of biochemical processes

Research with Children is a unique resource book on the methodology of childhood research. Leading and new researchers within the social studies of childhood discuss central questions of epistemology and methodology, demonstrating the links between theory and practice. The theoretical and practical questions are set out in a clear and well-argued fashion and will therefore appeal both to the newcomer to childhood studies and to experienced researchers in the field.

Thorough yet concise, *ESSENTIALS OF STRATEGIC MANAGEMENT*, Third Edition, is a brief version of the authors' market-leading text *STRATEGIC MANAGEMENT: AN INTEGRATED APPROACH*. Following the same framework as the larger book, *ESSENTIALS* helps students identify and focus on core concepts in the field in a more succinct, streamlined format. Based on real-world practices and current thinking, the text's presentation of strategic management features an increased emphasis on the business model concept as a way of framing the issues of competitive advantage. Cutting-edge research, new strategic management theory, and a hands-on approach allow students to explore major topics in management, including corporate performance, governance, strategic leadership, technology, and business ethics. In addition, a high-quality case program examines small, medium, and large companies--both domestic and international--so that students gain experience putting chapter concepts into real-world practice in a variety of scenarios. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Describes analytical methods development, optimization and validation, and provides examples of successful methods development and validation in high-performance liquid chromatography (HPLC) areas. The text presents an overview of Food and Drug Administration (FDA)/International Conference on Harmonization (ICH) regulatory guidelines, compliance with validation requirements for regulatory agencies, and methods validation criteria stipulated by the US Pharmacopoeia, FDA and ICH.

Pharmaceutical analysis determines the purity, concentration, active compounds, shelf life, rate of absorption in the body, identity, stability, rate of release etc. of a drug. Testing a pharmaceutical product involves a variety of chemical, physical and microbiological analyses. It is reckoned that over £10 billion is spent annually in the UK alone on pharmaceutical analysis, and the analytical processes described in this book are used in industries as diverse as food, beverages, cosmetics, detergents, metals, paints, water, agrochemicals, biotechnological products and pharmaceuticals. This is the key textbook in pharmaceutical analysis, now revised and updated for its fourth edition. Worked calculation examples Self-assessment Additional problems (self tests) Practical boxes Key points boxes New chapter on Biotech products. New chapter on electrochemical methods in diagnostics. Greatly extended chapter on molecular emission spectroscopy to accommodate developments and innovations in the area. Now on StudentConsult

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