

Pharmaceutical Calculations 14 Edition

This is an ideal textbook for the students of pharmacy, biotechnology and basic sciences. It is also a valuable reference for pharmacists working in industry and institutions.

"This textbook is designed for pharmacy technician students enrolled in an education and training program, for technicians reviewing for the national certification exam, and for on-site training and professional development in the workplace. It provides a complete review of the basic mathematics concepts and skills upon which a more advanced understanding of pharmacy-related topics must be built"--

Gain the practical skills you need to competently and confidently calculate drug dosages, even if you dislike math. All it takes is practice - and Calculation of Drug Dosages, 8th Edition gives you the most practice of any drug calculation book available! First, it provides an extensive review of essential math concepts before introducing and clearly explaining the ratio and proportion, formula, and dimensional analysis methods of drug calculation. The book's popular "worktext" format builds on concepts as you go and reinforces what you learn with over 2,000 practice problems in the book and on the accompanying CD-ROM. An extensive math review reinforces basic math skills that are essential for accurate drug dosage calculation. Once you've identified your strengths and weaknesses on the pretest, it's easy to work toward improving specific competencies. Chapter worksheets provide ample opportunities to practice solving realistic problems. Posttests at the end of most chapters help you assess your understanding of chapter content. Content is organized in a progression from simple to complex, building on prior knowledge and applying it to new material so you retain more of what you've learned. A Comprehensive Posttest at the end of the book provides additional practice and accurately gauges your understanding of key concepts. Learning objectives explain what you should have accomplished upon completion of each chapter. A glossary in the back of the book defines important terms. An answer key provides step-by-step solutions for practice problems presented in the worksheets and posttests, shown in both the ratio and proportion and formula methods. Answers only are provided for the comprehensive posttest. Current Joint Commission on Accreditation of Healthcare Organizations (JCAHO) and Institute for Safe Medication Practices (ISMP) recommendations emphasize the importance of avoiding ambiguous abbreviations, acronyms, and symbols that could result in medication errors. The Safety in Medication Administration chapter helps you reduce the possibility of medical errors or injuries by providing information on specific measures to take to protect your patients. More than 200 practice problems have been added to this edition for even more practice, bringing the total number of problems to over 2,000. Additional content on calculating medications for neonates based on weight in grams helps you accurately calculate dosages for low birth weight infants. A set of 18 tear-out flash cards, perforated in the back of the book, offers a flexible, convenient way to study and memorize abbreviations, formulas, and conversions found in the book. Updated drug labels and equipment photos throughout the book reflect the latest drugs and technology used in the market.

Master the fundamental calculations principles and basic techniques you need to know for successful pharmacy practice! Thoroughly reviewed by practitioners, and educators, this 15th Edition maintains high standards for both academic and basic practice requirements, while offering the most comprehensive and in-depth coverage of pharmacy calculations available. A consistent, step-by-step approach makes it easy to work through the problems and gain a greater understanding of the underlying concepts. New co-author Shelly Stockton brings her experience in pharmacy practice and expertise in teaching pharmaceuticals and pharmacy calculations to this edition. Hundreds of new problems, including many current products and select product labels directly linked to example problems. NEW Authors Extra Points provide brief explanations of underlying subjects such as pharmacopeias, electronic prescriptions, drug names, and the regulation of pharmacy compounding. NEW section on equianalgesic dosing for narcotic analgesics, including dosing tables. Student-friendly features like in-chapter example problems with step-by-step solutions; end-of-chapter practice problems with answers; Case-in-Point features with clinical or pharmaceutical case studies; Calculations Capsules with boxed summaries of chapter calculations; CalcQuiz sections with unsolved problems for review; and Comprehensive Review Problems for a final self-assessment."

Understanding practical pharmaceutical calculations is essential for healthcare professionals. Even simple errors in calculation can have serious - and possibly fatal - consequences. Fully revised and updated, with entirely new chapters and a focus on basic arithmetic, this best-selling practical guide begins by explaining simple units of measurements and expressions of concentration, followed by demonstrations of how straight-forward calculations can be used to estimate individual patient dosages. At the end of each chapter there are self assessment calculations, with fully worked answers - ideal for revision and self-assessment. With the book and free downloads you can always have the guide on hand when you need it most.

The Practice of Medicinal Chemistry, Fourth Edition provides a practical and comprehensive overview of the daily issues facing pharmaceutical researchers and chemists. In addition to its thorough treatment of basic medicinal chemistry principles, this updated edition has been revised to provide new and expanded coverage of the latest technologies and approaches in drug discovery. With topics like high content screening, scoring, docking, binding free energy calculations, polypharmacology, QSAR, chemical collections and databases, and much more, this book is the go-to reference for all academic and pharmaceutical researchers who need a complete understanding of medicinal chemistry and its application to drug discovery and development. Includes updated and expanded material on systems biology, chemogenomics, computer-aided drug design, and other important recent advances in the field Incorporates extensive color figures, case studies, and practical examples to help users gain a further understanding of key concepts Provides high-quality content in a comprehensive manner, including contributions from international chapter authors to illustrate the global nature of medicinal chemistry and drug development research An image bank is available for instructors at www.textbooks.elsevier.com

This best-selling pocket-sized book helps you perform drug calculations with confidence and competence. The completely updated third edition includes community practice and primary care settings, and a whole new section on pharmacology and medicines to

put drug calculations into context. Starting with the basic mathematical skills required for calculations, including tips on using calculators and estimating answers, Drug Calculations for Nurses progresses to give you an understanding of basic pharmacokinetics and therapeutics. It also covers how drugs work in specific groups such as children and the elderly. The book takes you through step-by-step drug calculations with units and drug strengths clearly explained. Pre-test and a revision questions allow you to test and be confident in the skills you have acquired.

Dosage Calculations Made Incredibly Easy contains everything health care practitioners need to review and students need to learn about calculating drug dosages. This entertaining and informative reference reviews the basic math needed to perform dosage calculation, including fractions, decimals, percentages, ratios, and proportions. It walks the nurse through the interpretation of hundreds of examples of drug orders and the performance of hundreds of complex dosage calculations, and provides information on deciphering difficult abbreviations, dealing with unclear handwriting, reading medication labels, selecting administration equipment, and more.

Pharmaceutical Calculations Lippincott Williams & Wilkins

readers will find this book to be the most comprehensive source on pharmaceutical dosage forms and drug delivery systems. Physical Pharmacy Capsules highlight key concepts with boxes, providing easy reference. Reflecting traditional pharmaceuticals pedagogy, the new edition is organized by dosage form rather than by route of administration

Pharmaceutical Calculations Workbook is the companion self-study aid to Introduction to Pharmaceutical Calculations, 2E. It contains practice calculations (with answers) similar to those that might be presented in pharmacy examinations and in practice. Each chapter contains a variety of exercises for practicing calculations using the methods covered in the companion text. Tables for completion are included in addition to individual drug- or patient-specific, questions.

The second edition of Dosage Calculations: A Ratio-Proportion Approach builds upon its core strengths-comprehensive math review, ratio-proportion method approach, full-color drug labels, and critical thinking assessment. The author's trusted three step method, Convert, Think, Calculate, trains users how to significantly reduce errors and increase their confidence in dosage calculation. The second edition includes a new chapter on Preventing Medication Errors and a new StudyWare CD, with 500 additional practice questions with answers and solutions. This edition has also been updated to reflect the most current drugs and protocol, including JCAHO's do-not-use list.

Pharmaceutical and clinical calculations are critical to the delivery of safe, effective, and competent patient care and professional practice. Pharmaceutical and Clinical Calculations, Second Edition addresses this crucial component, while emphasizing contemporary pharmacy practices. Presenting the information in a well-organized and easy-to-understand manner, the authors explain the principles of clinical calculations involving dose and dosing regimens in patients with

impaired organ functions, aminoglycoside therapy, pediatric and geriatric dosing, and radiopharmaceuticals with appropriate examples. Each chapter begins with an introduction to the topic, followed by a comprehensive discussion. Key concepts are highlighted throughout the book for easy retrieval. The examples presented in the text reflect the practice environment in community, hospital, and nuclear pharmacy settings, and the clinical problems presented reflect a direct application of underlying theoretical principles and discussions. *Pharmaceutical and Clinical Calculations, Second Edition* is an essential tool for any practitioner who needs to reinforce their knowledge of the subject and is a valuable study guide for the Pharmacy Board examination.

Widely recognized as the leading calculations textbook, Ansel's *Pharmaceutical Calculations* is the most trusted resource for calculations support. Time-tested after thirteen editions, it is the most comprehensive and in-depth treatment of pharmacy calculations available. The book takes a step-by-step approach to calculations, making it easy for students to work through the problems and gain greater understanding of the underlying concepts. Its focus is on the fundamental principles and basic techniques involved in the application of the calculations needed for successful pharmacy practice. Preceded by *Math calculations for pharmacy technicians* / Robert M. Fulcher, Eugenia M. Fulcher. 2nd ed. c2013.

Praise for the Second Edition: "... this is a useful, comprehensive compendium of almost every possible sample size formula. The strong organization and carefully defined formulae will aid any researcher designing a study." -Biometrics
"This impressive book contains formulae for computing sample size in a wide range of settings. One-sample studies and two-sample comparisons for quantitative, binary, and time-to-event outcomes are covered comprehensively, with separate sample size formulae for testing equality, non-inferiority, and equivalence. Many less familiar topics are also covered ..." – Journal of the Royal Statistical Society
Sample Size Calculations in Clinical Research, Third Edition presents statistical procedures for performing sample size calculations during various phases of clinical research and development. A comprehensive and unified presentation of statistical concepts and practical applications, this book includes a well-balanced summary of current and emerging clinical issues, regulatory requirements, and recently developed statistical methodologies for sample size calculation. Features: Compares the relative merits and disadvantages of statistical methods for sample size calculations Explains how the formulae and procedures for sample size calculations can be used in a variety of clinical research and development stages Presents real-world examples from several therapeutic areas, including cardiovascular medicine, the central nervous system, anti-infective medicine, oncology, and women's health Provides sample size calculations for dose response studies, microarray studies, and Bayesian approaches This new edition is updated throughout, includes many new sections, and five new chapters on emerging topics: two stage seamless adaptive designs, cluster randomized trial design, zero-inflated Poisson distribution,

clinical trials with extremely low incidence rates, and clinical trial simulation.

Performing pharmaceutical calculations accurately and expeditiously is pertinent for pharmacists and pharmacy technicians and ensures that patient safety is not compromised. *Pharmaceutical Calculations: 1001 Questions with Answers* serves as a resource to provide guided additional practice most students desire. This book assists students gain mastery of pharmaceutical calculations and helps them acquire the calculations skill needed in their professional practice. Main features of the book: * 1001 calculations questions suitable for self-paced study and NAPLEX(r) review * Questions covering important topics in compounding and professional practice: - Flowrate calculations - Milliequivalents - Total Parenteral Nutrition - Reconstitution - Dosage calculations - Dilution and Concentration * Detailed solutions including rationale behind solutions Step by step video solutions are available online. Visit www.rxcCalculations.com

This book provides a source for contemporary practice previously found spread out over journal articles, legal documents, standards of practice, specialty books and textbooks. It goes through the steps of receiving the prescription, preparing it and completing the compound. Includes a back-of-the-book CD-ROM that complements the text with study guides, interactive self-assessment and multimedia demonstrations of compounding procedures for key chapters.

Now fully updated, the *Oxford Handbook of Clinical Pharmacy* remains the indispensable guide to clinical pharmacy, providing all the information needed for practising and student pharmacists. Presenting handy practical guidance in a quick-reference, bullet-point format, this handbook will supply the knowledge and confidence needed to provide a clinical pharmacy service.

Complementing the current British National Formulary guidelines, the handbook gives prescribing points and linked concepts of relevance to clinical pharmacists. The contents are evidence-based and contain a wealth of information from the authors' many years of clinical pharmacy experience. This handbook is the definitive quick-reference guide for all practising and student pharmacists.

Introduction to Pharmaceutical Calculations is an essential study aid for pharmacy students. The book contains worked examples and sample questions and answers.

Pharmaceutical Calculations: A Conceptual Approach, is a book that combines conceptual and procedural understanding for students and will guide you to master prerequisite skills to carry out accurate compounding and dosage regimen calculations. It is a book that makes the connection between basic sciences and pharmacy. It describes the most important concepts in pharmaceutical sciences thoroughly, accurately and consistently through various commentaries and activities to make you a scientific thinker, and to help you succeed in college and licensure exams. Calculation of the error associated with a dose measurement can only be carried out after understanding the concept of accuracy versus precision in a measurement. Similarly, full appreciation of drug absorption and distribution to tissues can only come about after understanding the process of transmembrane passive diffusion. Early understanding of these concepts will allow reinforcement and deeper comprehension of other related concepts taught in other courses. More weight is placed on the qualitative understanding of fundamental concepts,

like tonicity vs osmotic pressure, diffusion vs osmosis, crystalloids vs colloids, osmotic diuretics vs plasma expanders, rate of change vs rate constants, drug accumulation vs drug fluctuation, loading dose vs maintenance dose, body surface area (BSA) vs body weight (BW) as methods to adjust dosages, and much more, before considering other quantitative problems. In one more significant innovation, the origin and physical significance of all final forms of critical equations is always described in detail, thus, allowing recognition of the real application and limitations of an equation. Specific strategies are explained step-by-step in more than 100 practice examples taken from the fields of compounding pharmacy, pharmaceuticals, pharmacokinetics, pharmacology and medicine.

A valuable supplement to any pharmacy maths course or textbook, Learning and Mastering Pharmaceutical Calculations makes the process of sharpening critical calculation skills more efficient and effective for students and technicians at all levels of experience, as well as practitioners looking to refresh their skills. This unique new workbook enhances the learning experience in several ways: Learners can assess their skills and choose the progressive learning paths that fit their needs, starting with the chapters that match their abilities. Includes two pathways to learning: one covering basic concepts and skills for calculations and compounding, the other is advanced, with a progress test to measure aptitude. Focuses on how to go about solving mathematical problems. Presents problems in step-by-step phases, breaking complicated calculations into manageable stages for easier analysis. Presented in an easy-to-follow outline format, with statement of goals, key terms, worked problems, and solutions. Includes additional review problems and solutions in the appendix. Calculation problems are tied to all areas and aspects of pharmaceutical practice.

A handbook that you will refer to throughout your entire pharmacy education! Pharmacy Student Survival Guide is a one-of-a-kind roadmap for excelling in pharmacy practice courses. A unique combination calculations, kinetics, drug information, medical terminology, and laboratory data book all in one, the Guide helps you organize case information, improve problem-solving skills, learn terminology, and impress faculty during rounds. Pharmacy Student Survival Guide is presented in three sections that span the entire pharmacy curriculum: Systems and Expectations covering etiquette, ethics, communication, monitoring patients, and the function of a medical team Patient Care Tool Box covering medical terminology, pharmacokinetics, laboratory data, and physical assessment Topics in Pharmacy Practice addressing the practice of community and institutional pharmacy, the pharmacists as drug information specialist, managed care, public health, and global pharmacy Valuable for both introductory and advanced practice courses, Pharmacy Student Survival Guide is the one book every pharmacy student must own.

Calculation in pharmacy is wide and broad-based starting from dispensing to manufacturing, quality control, research and development in pharmaceutical industries. This is an important subject area for any student pursuing pharmacy course irrespective of level of the course. Thus, the students during their course of studies and pharmaceutical technologists during their work need to know calculations related to (1) Physical and chemical properties of active ingredients and excipients, (2) Rate of absorption, (3) Biological activity, and (4) Rate of degradation of the drug substances. There is need to have such book on pharmaceutical

calculations that can fulfill the needs of Institutions as well as industries. The book, Elementary Pharmaceutical Calculations has been designed so that it can meet the needs of students. The content of the book has been divided into 13 chapters. Each chapter begins with introductory description of concept, relevant formulas with derivation and then examples to explain how the formula can be used to solve problems; finally at the end there are problems given to solve.

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

Pharmaceutics is one of the most diverse subject areas in all of pharmaceutical science. In brief, it is concerned with the scientific and technological aspects of the design and manufacture of dosage forms or medicines. An understanding of pharmaceutics is therefore vital for all pharmacists and those pharmaceutical scientists who are involved with converting a drug or a potential drug into a medicine that can be delivered safely, effectively and conveniently to the patient. Now in its fourth edition, this best-selling textbook in pharmaceutics has been brought completely up to date to reflect the rapid advances in delivery methodologies by eye and injection, advances in drug formulations and delivery methods for special groups (such as children and the elderly), nanomedicine, and pharmacognosy. At the same time the editors have striven to maintain the accessibility of the text for students of pharmacy, preserving the balance between being a suitably pitched introductory text and a clear reflection of the state of the art. provides a logical, comprehensive account of drug design and manufacture includes the science of formulation and drug delivery designed and written for newcomers to the design of dosage forms New to this edition New editor: Kevin Taylor, Professor of Clinical Pharmaceutics, School of Pharmacy, University of London. Twenty-two new contributors. Six new chapters covering parenteral and ocular delivery; design and administration of medicines for the children and elderly; the latest in plant medicines; nanotechnology and nanomedicines, and the delivery of biopharmaceuticals. Thoroughly revised and updated throughout.

Are you a pharmacy technician, or pharmacy technician student, who wants to learn a few simple methods of solving pharmacy calculations without a bunch of formulas? Would you like to raise your hand in Pharmacy Calculations Class, after the instructor

explains a complicated formula, and ask to approach the white board to show the class a much simpler method? Do you want to go out on your externship and teach practicing pharmacy technicians how to perform pharmacy calculations? Do you want to walk into your Pharmacy Calculations Class on the first day knowing that you can ace all the tests before the course begins? If you answered yes to any of these questions, this book is for you. The book's first chapter covers the following auxiliary subjects, which are important to a well-rounded knowledge of pharmacy calculations. · Rounding Numbers · Roman Numerals · The Metric System · Scientific Notation · Significant Figures · Percent Error · The Apothecary/Avoirdupois/Household Systems The second chapter will teach you that all the following types of calculations can be performed with one simple method. If you can convert 5 g to mg using this method, you can solve the most complicated IV flow rate problem. · Unit Conversions · Dosage Calculations · IV Flow Rate Calculations · Percent Calculations · Percent Strength Calculations · Ratio Strength Calculations · Quantity to Dispense Calculations · Milliequivalent Calculations The third chapter covers concentrations and dilutions. While there is not one method of solving all these problems, you will quickly see that they all have common components. Topics covered are: · Preparing a Solution Using Two Different Strength Solutions · Preparing a Solution from a Stock Solution and a Diluent · Calculating the Percent Strength of a Mixture · Powder Volume Calculations · Serial Dilution The book includes plenty of exercises to hone your skills along with a self-assessment exercise. Finally, the book ends with a couple of "Pharmacy Calculation Puzzles". These puzzles are for those students who want to say to themselves, "If I can solve these, I can solve any possible problem I will encounter." The gold standard on pharmaceutical calculations, this widely acclaimed text covers the full range of calculations pharmacy students must learn for successful pharmacy practice, including dosing, compounding, metric conversions and more. Thoroughly reviewed by practitioners and educators and extensively revised and updated, this 16th edition maintains high standards for both academic and basic practice requirements while offering the most comprehensive and in-depth coverage of pharmacy calculations available. A consistent, step-by-step approach makes it easy to work through the problems and gain a greater understanding of the underlying concepts, and new online access to calculation problems makes this the most engaging edition yet. A comprehensive and clearly written book on pharmacy calculations, this new text covers all the calculations that pharmacy students need to know in relation to pharmacy practice and clinical pharmacy. It includes a large number of self-testing questions at the end of each chapter as well as some 'mock' UK registration exam papers. The opportunities for self-assessment allow students to practice calculations until they achieve true competence. The book is especially useful for anyone preparing for registration exams in pharmacy, in particular those based on the UK exam. Contains self-study questions and answers, many with worked examples Includes 'mock' registration exam papers Ideal for exam preparation and as a reference for later practice Includes a chapter on pharmacokinetics Serves as a useful reference during practice

Accurately performing pharmaceutical calculations is a critical component in providing patient care in any pharmacy setting. Pharmaceutical Calculations is the perfect text for students or professionals aiming to understand or develop the calculations skills that play such a significant role in building a competent pharmacist. This text focuses on increasing student learning and

understanding in important areas of pharmaceutical calculations. Basic math fundamentals essential for pharmaceutical calculation is presented in the beginning of the book, followed by calculations that are more specific to compounding and formulation of individual dosage forms. Incorporated throughout each chapter is: Practice sets Solved problems Case studies in the form of prescriptions Key terms

MCQs in Pharmaceutical Calculations aims to help pre-registration trainees and pharmacy students with their study enabling them to perform calculations accurately and with confidence. Pharmacists frequently perform simple calculations as part of their professional practice. It is therefore vital that they are able to employ basic numeracy skills accurately so as not to compromise patient safety. The pharmaceutical societies of Great Britain and Northern Ireland (RPSGB and PSNI) have introduced compulsory calculations elements into the registration examinations. These sections must be passed independently of the rest of the examination. Many Schools of Pharmacy worldwide have also recently increased their emphasis on numeracy skills. It includes: * 360 calculations questions in three commonly used multiple choice formats * questions based on important areas in pharmaceutical science and practice: * manipulation of formulae and dilutions * dosing * pharmacokinetics * formulation and dispensing * pharmaceutical chemistry * descriptive answers giving the reasoning behind the answers Note: This book is accompanied by an additional 100 calculation-based multiple choice questions, arranged into five 1-hour tests, which will be available from the Pharmaceutical Press FASTtrack website. Importantly, these questions are available in the format of both The Royal Pharmaceutical Society and the Pharmaceutical Society of Northern Ireland registration examinations. The fourth title in the Tomorrow's Pharmacist series, MCQs in Pharmaceutical Calculations, will be indispensable to pre-registration trainees and pharmacy students to help them prepare for their future career. Also available in this series: Hospital Pre-registration Pharmacist Training Pre-registration Interview, The Registration Exam Questions

Pharmaceutical Calculations is the perfect text for students or professionals aiming to understand or develop the calculations skills that play a significant role in building a competent pharmacist. This text focuses on basic math fundamentals essential for pharmaceutical calculations, followed by calculations that are more specific to compounding and formulation of individual dosage. This helpful approach incorporates solved examples for each individual section followed by practice sets, with an answer key to each problem. At the end of each chapter case studies demonstrate the application of mathematical calculations in compounding actual prescriptions. **FEATURES** • Practice sets • Solved problems • Case studies in the form of prescriptions

This handbook is intended to be used as a tool that can be quickly accessed and employed in the in the student setting, as a lab reference, and in the pharmacy practice. Designed as a concise reference and resource, it will provide easily accessible definitions, pharmacy applications, insight on working with "tricky" calculations, and realistic/function example calculation. With its convenient size and easy-to-navigate outline structure, this handbook should provide great value to both the student and pharmacist.

Pharmacy Calculations: An Introduction for Pharmacy Technicians is designed for pharmacy technician students enrolled in a training program, technicians preparing for the certification exam, and for on-site training. As the role for pharmacy technicians continues to evolve

and expand, one thing remains constant. The safety of patients is the highest priority for anyone working in pharmacy, whether in hospital, retail, or institutional practices. A thorough understanding of pharmacy math ensures accuracy in computations and safety and quality in practice. This book offers a complete review of the basic mathematics concepts and skills, which provide a foundation for more advanced understanding of pharmacy-related topics. The guide provides students with the pharmacy basics necessary for correctly interpreting prescriptions and drug orders, and for performing dosing calculations that technicians face every day. The chapters are broken down into four units and are organized to complement most pharmacy technician training curricula and to support the ASHP model curriculum: · Review of Mathematics · Systems of Measurement · Preparing for Problem Solving in Pharmacy · Dosing Calculations and Other Pharmacy Problems Key features throughout the book include: · Chapter objectives · Key terms and definitions · Examples of problem scenarios or calculations questions and solutions · “Tech Note!” —provides a highlight of key points within the chapters · “Numbers at Work” —illustrates why key concepts are important to know and skills are critical to master · Practice problems · A test bank · Appendices that include the parts of a prescription, a glossary of terms, conversions, and abbreviations tables. For additional resources related to this book, visit www.ashp.org/techcalculations.

Math is a critical element of pharmaceutical care and a sound knowledge of math concepts is key to succeeding as a pharmacy technician. The second edition of PHARMACEUTICAL CALCULATIONS FOR PHARMACY TECHNICIANS: A WORKTEXT provides an effective, hands-on guide to essential math skills, from simple addition and subtraction to formulas used in dosage calculations and basic business math. This highly practical reference helps students develop strong math skills to perform accurate calculations with confidence and prevent medication errors. In addition to informative content, the text includes abundant examples of medication labels, medical forms, and other images to help students apply professional skills in real-life situations. Now thoroughly updated, this edition is more useful than ever, providing an invaluable resource for students and professional pharmacy technicians alike. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Retaining the successful previous editions' programmed instructional format, this book improves and updates an authoritative textbook to keep pace with compounding trends and calculations – addressing real-world calculations pharmacists perform and allowing students to learn at their own pace through examples. Connects well with the current emphasis on self-paced and active learning in pharmacy schools Adds a new chapter dedicated to practical calculations used in contemporary compounding, new appendices, and solutions and answers for all problems Maintains value for teaching pharmacy students the principles while also serving as a reference for review by students in preparation for licensure exams Rearranges chapters and rewrites topics of the previous edition, making its content ideal to be used as the primary textbook in a typical dosage calculations course for any health care professional Reviews of the prior edition: "...a well-structured approach to the topic..." (Drug Development and Industrial Pharmacy) and "...a perfectly organized manual that serves as a expert guide..." (Electric Review)

Intended for use in an introductory pharmacy technician calculations course, this unique book addresses not only calculations that technicians will encounter in retail, but also those necessary for compounding, IV, industry and areas where a pharmacy technician might be called upon more frequently because of the shortage of pharmacy professionals.

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