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Traditional research methodologies in the human respiratory system have always been challenging due to their invasive nature. Recent advances in medical imaging and computational fluid dynamics (CFD) have accelerated this research. This book compiles and details recent advances in the modelling of the respiratory system for researchers, engineers, scientists, and health practitioners. It breaks down the complexities of this field and provides both students and scientists with an introduction and starting point to the physiology of the respiratory system, fluid dynamics and advanced CFD modeling tools. In addition to a brief introduction to the physics of the respiratory system and an overview of computational methods, the book contains best-practice guidelines for establishing high-quality computational models and simulations. Inspiration for new simulations can be gained through innovative case studies as well as hands-on practice using pre-made computational code. Last but not least, students and researchers are presented the latest biomedical research activities, and the computational visualizations will enhance their understanding of physiological functions of the respiratory system. Reinforce your understanding of the concepts and skills described in Egan’s Fundamentals of Respiratory Care, 12th Edition! With chapters corresponding to the chapters in Egan’s market-leading textbook, this workbook prepares you to succeed on certification exams with NBRC-style, case study application, and analysis-style questions. This edition includes two new chapters plus a wide range of activities and exercises to guide you through difficult concepts. Word Wizard helps you remember the terminology used in respiratory care. Key points identify the main concepts to remember in each chapter. Meet the Objectives lets you assess your understanding of the key content in each chapter. Case studies let you apply assessment and intervention strategies, and help you practice critical thinking. What Does the NBRC Say? summarizes the expectations of the NBRC (National Board for Respiratory Care) and provides a sampling of NBRC-style, multiple-choice questions to help students prepare for the certification exam. Food for Thought provides thought-provoking questions related to respiratory care topics. Exercises in each chapter offer hands-on learning with a wide range of activities. NEW Heart Failure chapter reinforces the content in this new chapter of the textbook, challenging you to use recall and critical thinking skills. NEW Ethics and End-of-Life Care chapter helps you understand this issue and how to help patients and their families. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Prepare for professional success in respiratory care with this innovative online companion to Egan's Fundamentals of Respiratory Care, 9th Edition. Presenting a wide range of engaging, interactive learning tools, this application-based course strengthens your understanding of complex concepts and immerses you in realistic clinical scenarios similar to those you'll encounter in practice. It's the easiest, most engaging way to perfect your critical thinking skills, prepare for your certification exam, and ensure the most effective respiratory care for your patients! Dynamic animations, slideshows, interactive exercises, videos, and audio clips help you master complex concepts from the text. Mini Clini Challenges enable you to safely apply your knowledge in a realistic clinical setting. Direct access to a complete list of formulas ensures fast, easy reference in a format you can print out and take on the job. A comprehensive audio glossary helps you review new terms and definitions as you learn them. Ventilator graphics provide valuable practice reading and interpreting ventilator equipment. Assessment tests at the end of every module help you identify areas requiring additional study and provide rationales for enhanced understanding. Gain a foundational understanding of respiratory physiology and how the respiratory system functions in health and disease. Respiratory Physiology, a volume in the Mosby Physiology Series, explains the fundamentals of this complex subject in a clear and concise manner, while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book. Helps you easily master the material in a systems-based curriculum with learning objectives, Clinical Concept boxes, highlighted key words and concepts, chapter summaries, self-study questions, and a comprehensive exam. Keeps you current with recent advances in respiratory physiology, and includes a new chapter on new and emerging aspects of the lung. Includes nearly 150 clear, 2-color diagrams that simplify complex concepts. Features clinical commentaries that show you how to apply what you've learned to real-life clinical situations. Complete the Mosby Physiology Series! Systems-based and portable, these titles are ideal for integrated programs. Blaustein, Kao, & Matteson: Cellular Physiology and Neurophysiology Johnson: Gastrointestinal Physiology Koeppen & Stanton: Renal Physiology Pappano & Weir: Cardiovascular Physiology White, Harrison, & Mehlmann: Endocrine and Reproductive Physiology Hudnall: Hematology: A Pathophysiologic Approach This handbook covers the principles of mechanical ventilation, making them easy to understand and apply in clinical settings. Presented in an accessible style and supplemented by a wealth of illustrations and graphs, it includes chapters on the basic mathematics and physics of ventilation, respiratory anatomy, basic and advanced ventilation modes, and the fundamentals of acid-base balance. A closing chapter on troubleshooting for mechanical ventilation provides valuable tips on how to deal with various situations encountered in intensive care units. The book is primarily intended for respiratory therapy practitioners, clinicians in pulmonary units, and pulmonologists, as well as graduate students in respiratory medicine and students pursuing undergraduate courses in respiratory therapy – all of whose work involves mechanical ventilators. Hodson and Geddes' Cystic Fibrosis provides everything the respiratory clinician, pulmonologist or health professional treating patients needs in a single manageable volume. This international and authoritative work brings together current knowledge and has become established in previous editions as a leading reference in the field. This fourth edition includes a wealth of new information, figures, useful videos, and a companion eBook. The basic science that underlies the disease and its progression is outlined in detail and put into a clinical context. Diagnostic and clinical aspects are covered in depth, as well as promising advances such as gene therapies and other novel molecular based treatments. Patient monitoring and the importance of multidisciplinary care are also emphasized. This edition: Features accessible sections reflecting the multidisciplinary nature of the cystic fibrosis care team Contains a chapter written by patients and families about their experiences with the disease Includes expanded coverage of clinical areas, including chapters covering sleep, lung mechanics and the work of breathing, upper airway disease, insulin deficiency and diabetes, bone disease, and sexual and reproductive issues Discusses management both in the hospital and at home Includes a new section on monitoring and discusses the use of databases to improve patient care Covers monitoring in different age groups, exercise testing and the outcomes of clinical trials in these areas Includes chapters devoted to nursing, physiotherapy, psychology, and palliative and spiritual care Throughout, the emphasis is on providing an up-to-date and balanced review of both the clinical and basic science aspects of the subject and reflecting the multidisciplinary nature of the cystic fibrosis care team. A leader in respiratory care education for more than 35 years, this comprehensive textbook lays a strong foundation for a successful career. You'll gain a thorough understanding of the role of respiratory therapists (RTs), a scientific basis for treatment, and clinical applications. In-depth discussions progress from the principles of respiratory care to applied anatomy and physiology, assessment, discussion of specific respiratory illnesses, basic therapy, acute and critical care, and preventive and long-term care. Clinical Practice Guidelines (CPGs) and Therapist Driven Protocols (TDPs) in appropriate chapters familiarize you with patient care guidelines and decision trees as they are used in practice. A full-color format makes the text easier to read and brings out key detail in the illustrations. Mini-Clinis provide short vignettes applying content in the text to actual patient care, asking you to think critically on problems you may encounter. Clinical Practice Guidelines (CPGs) cover the steps of patient care with important information on indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. Therapist-Driven Protocols (TDPs) provide decision trees developed by hospitals, helping you to assess patients, initiate care, and evaluate outcomes. Rules of Thumb highlights rules, formulas, and key points important to clinical practice. Measurable Learning Objectives parallel the areas tested by the NBRC exam, helping you identify important information that goes beyond memorization and recall. Key Point summaries in bulleted format help you clearly identify key concepts covered in each

chapter. A Workbook includes a wide range of activities such as NBRC-type multiple-choice questions, case studies, experiments, and hands-on activities, allowing you to apply the knowledge you've gained from the text. New History of Respiratory Care chapter describes the evolution and challenges of this profession. Updated content reflects changes in the field, with additions to the text including: More coverage of evidence-based care Information on HIPAA A discussion of computer applications in a health care setting An emphasis on how nutrition impacts the respiratory system The role of the respiratory therapist in disease management is discussed in the Cardiopulmonary Diseases section. A new appendix cross-references the NBRC examination matrices for the CRT and RRT to content in the book, making it easier to prepare for the NBRC exams. New editor Robert Kacmarek, a well-known figure in respiratory care, has joined Robert Wilkins and James Stoller. This respiratory care guide covers topics such as: scientific principles; clinical assessment; advanced studies such as pulmonary function and blood gases; equipment usage; and ventilation. The text also presents case studies, learning objectives and key terms. Learn the principles and skills you'll need as a respiratory therapist! Egan's Fundamentals of Respiratory Care, 12th Edition provides a solid foundation in respiratory care and covers the latest advances in this ever-changing field. Known as "the bible for respiratory care," this text makes it easy to understand the role of the respiratory therapist, the scientific basis for treatment, and clinical applications. Comprehensive chapters correlate to the 2020 NBRC Exam matrices, preparing you for clinical and exam success. Written by noted educators Robert Kacmarek, James Stoller, and Albert Heuer, this edition includes new chapters on heart failure as well as ethics and end-of-life care, plus the latest AARC practice guidelines. Updated content reflects the newest advances in respiratory care, preparing you to succeed in today's health care environment. UNIQUE! Mini-Clinis provide case scenarios challenging you to use critical thinking in solving problems encountered during actual patient care. Decision trees developed by hospitals highlight the use of therapist-driven protocols to assess a patient, initiate care, and evaluate outcomes. Rules of Thumb highlight rules, formulas, and key points that are important to clinical practice. Learning objectives align with the summary checklists, highlighting key content at the beginning and at the end of each chapter, and parallel the three areas tested on the 2020 NBRC Exam matrices. Learning resources on the Evolve companion website include an NBRC correlation guide, image collection, lecture notes, Body Spectrum electronic anatomy coloring book, and an English/Spanish glossary. Student workbook provides a practical study guide reflecting this edition of the text, offering numerous case studies, experiments, and hands-on activities. Available separately. Full-color design calls attention to the text's special features and promotes learning. Glossary includes key terms and definitions needed for learning concepts. NEW Heart Failure chapter covers the disease that is the most frequent cause of unscheduled hospital admissions. NEW Ethics and End-of-Life Care chapter explains related issues and how to help patients and their families. NEW! Improved readability makes the text easier to read and concepts easier to understand. NEW! Updated practice guidelines from the AARC (American Association for Respiratory Care) are included within the relevant chapters. NEW! Updated chapters include topics such as arterial lines, stroke, ACLS, PALS, hemodynamics, polysomnography, waveform interpretation, and laryngectomy. NEW! Streamlined format eliminates redundancy and complex verbiage. Includes a wide variety of activities such as review questions (3 levels following the NBRC question format), vocabulary review, chapter objectives, chapter highlights, case studies, and critical-thinking questions. This textbook lays a strong foundation for a successful career. Readers will gain an understanding of the role of respiratory therapists, a scientific basis for treatment, and clinical applications. In-depth discussions progress from the principles of respiratory care to applied anatomy and physiology, assessment, etc. The 10th Edition of this text delivers a comprehensive introduction to the field of respiratory care including the latest advances and trends in professional practice today. This new edition, explains the role of respiratory therapists (RTs), scientific bases for treatment, and clinical applications. In-depth discussions progress from the principles of respiratory care to applied anatomy and physiology, patient assessment, discussion of specific respiratory illnesses, basic therapy, acute and critical care, and preventive and long-term care. For use in preparation for the NBRC examination. -- From back cover Perfect for both practicing therapists and students in respiratory therapy and associated professions, this well-organized text offers the most clinically relevant and up-to-date information on respiratory applied anatomy and physiology. Content spans the areas of basic anatomy and physiology of the pulmonary, cardiovascular, and renal systems, and details the physiological principles underlying common therapeutic, diagnostic, and monitoring therapies and procedures. Using a clear and easy-to-understand format, this text helps you take a more clinical perspective and learn to think more critically about the subject matter. Open-ended concept questions require reasoned responses based on thorough comprehension of the text, fostering critical thinking and discussion. Clinical Focus boxes throughout the text place key subject matter in a clinical context to connect theory with practice. Chapter outlines, chapter objectives, key terms, and a bulleted chapter summary highlight important concepts and make content more accessible. Appendixes contain helpful tables and definitions of terms and symbols. NEW! Chapter on the physiological basis for treating sleep-disordered breathing clarifies the physiological mechanisms of sleep-disordered breathing and the various techniques required to treat this type of disorder. NEW! Reorganization of content places the section on the renal system before the section on integrated responses in exercise and aging to create a more logical flow of content. NEW! More Clinical Focus scenarios and concept questions provide additional opportunities to build upon content previously learned and to apply new information in the text. A comprehensive guide to the current research, major challenges, and future prospects of controlled drug delivery systems Controlled drug delivery has the potential to significantly improve therapeutic outcomes, increase clinical benefits, and enhance the safety of drugs in a wide range of diseases and health conditions. Fundamentals of Drug Delivery provides comprehensive and up-to-date coverage of the essential principles and processes of modern controlled drug delivery systems. Featuring contributions by respected researchers, clinicians, and pharmaceutical industry professionals, this edited volume reviews the latest research in the field and addresses the many issues central to the development of effective, controlled drug delivery. Divided in three parts, the book begins by introducing the concept of drug delivery and discussing both challenges and opportunities within the rapidly evolving field. The second section presents an in-depth critique of the common administration routes for controlled drug delivery, including delivery through skin, the lungs, and via ocular, nasal, and otic routes. The concluding section summarizes the current state of the field and examines specific issues in drug delivery and advanced delivery technologies, such as the use of nanotechnology in dermal drug delivery and advanced drug delivery systems for biologics. This authoritative resource: Covers each main stage of the drug development process, including selecting pharmaceutical candidates and evaluating their physicochemical characteristics Describes the role and application of mathematical modelling and the influence of drug transporters in pharmacokinetics and drug disposition Details the physiology and barriers to drug delivery for each administration route Presents a historical perspective and a look into the possible future of advanced drug delivery systems Explores nanotechnology and cell-mediated drug delivery, including applications for targeted delivery and toxicological and safety issues Includes comprehensive references and links to the primary literature Edited by a team of of internationally-recognized experts, Fundamentals of Drug Delivery is essential reading for researchers, industrial scientists, and advanced students in all areas of drug delivery including pharmaceutics, pharmaceutical sciences, biomedical engineering, polymer and materials science, and chemical and biochemical engineering. What do I need to know? Why do I need to know it? And how will I use it? Focusing on the most important concepts in the Egan's 10th Edition text, this workbook helps you answer these questions and develop a deeper understanding of respiratory care through real-life examples, key points, and a wide range of activities. Chapter-specific exercises offer various activities, such as exercises on ethics, equipment, and mathematics. Word Wizard tests your knowledge of key terms. Meet the Objectives gives you a way to assess your learning. Key Points identify key concepts from the chapter. Case studies help you practice critical thinking. Food for Thought offers thought-provoking tips and questions. Information Age highlights all the resources available to you on the web. A Picture is Worth (including Pneumo-nuggets) features a mixture of labeling exercises and "nuggets" of information in the form of tips or questions. Updated content reflects the changes in the 10th edition of the text. 20% more NBRC-style questions help you pass the NBRC examination. More critical-thinking/essay questions allow you to apply your learning. A new edition of the classic text, is for respiratory care students who desire a complete and up to date exploration of the technical and professional aspects of respiratory care. With foundations in evidence-based practice, this resource reviews respiratory assessment, respiratory therapeutics, respiratory diseases, basic sciences and their application to respiratory care, the respiratory care profession, and much more. Edited and authored by leading experts, it incorporates the latest information on the practice of respiratory care into a well-organized, reader-friendly guide to help students learn to develop care plans, critical thinking skills, strong communication and patient education skills, and the clinical leadership skills needed to succeed. This text provides essential information in a practical and manageable format for optimal learning and retention. Features include Clinical Practice Guidelines, Key Points, and Respiratory Recaps to help students apply knowledge to practice and retain key information, as well as hundreds of glossary terms with clear definitions, and concise explanations of important concepts and equations. Also includes full color photos and illustrations, and content cross-referencing the NBRC examination matrices. Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780323082037 . Learn the principles and skills you'll need as a respiratory therapist! Egan's Fundamentals of Respiratory Care, 12th Edition provides a solid foundation in respiratory care and covers the latest advances in this ever-changing field. Known as "the bible for respiratory care," this text makes it easy to understand the role of the respiratory therapist, the scientific basis for treatment, and clinical applications. Comprehensive chapters correlate to the 2020 NBRC Exam matrices, preparing you for clinical and exam success. Written by noted educators Robert Kacmarek, James Stoller, and Albert Heuer, this edition includes new chapters on heart failure as well as ethics and end-of-life care, plus the latest AARC practice guidelines. Updated content reflects the newest advances in respiratory care, preparing you to succeed in today's health care environment. UNIQUE! Mini-Clinis provide case scenarios challenging you to use critical thinking in solving problems encountered during actual patient care. Decision trees developed by hospitals highlight the use of therapist-driven protocols to assess a patient, initiate care, and evaluate outcomes. Rules of Thumb highlight rules, formulas, and key points that are important to clinical practice. Learning objectives align with the summary checklists, highlighting key content at the beginning and at the end of each chapter, and parallel the three areas tested on the 2020 NBRC Exam matrices. Learning resources on the Evolve companion website include an NBRC correlation guide, image collection, lecture notes, Body Spectrum electronic anatomy coloring book, and an English/Spanish glossary. Student workbook provides a practical study guide reflecting this edition of the text, offering numerous case studies, experiments, and hands-on activities. Available separately. Full-color design calls attention to the text's special features and promotes learning. Glossary includes key terms and definitions needed for learning concepts. 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By performing a thorough patient assessment, you'll be able to assist physicians in the decision-making process regarding treatment, in evaluating the treatment's effectiveness, and in determining if changes in the treatment need to be made. The book's comprehensive approach covers all of the most important aspects and topics of assessment. This edition is streamlined to emphasize learning objectives. And you can prepare for the CRT exam more effectively with the new NBRC Exam Matrix Correlation Guide! A comprehensive approach covers all of the most important aspects of assessment, so you can assess patients effectively. Additional Questions to Ask About boxes list questions that you should ask patients (e.g., coughing, sputum, shortness of breath) or ask yourself (e.g., lung sounds you are hearing, blood pressure, respiratory rate). Learning objectives, chapter outlines, chapter overviews, and key terms lists begin each chapter, preparing you for the key topics and content you will learn. Key Point summaries and assessment questions reflect and emphasize the key information identified in the learning objectives. Answers to assessment questions help you review by including rationales and page references to the textbook, by reflecting the NBRC format, and by supporting learning objectives. Enhanced Simply Stated boxes emphasize important concepts. Additional case studies help you apply chapter content to clinical scenarios. Content from the text is related to the NBRC exam matrix for the CRT exam on a companion Evolve website, helping you better prepare for the difficult board exams. A new Neurological Assessment chapter focuses on conscious sedation. A discussion of health literacy addresses the importance of determining the patient's level of understanding when conducting a patient assessment. Discussions of the assessment of the obese patient prepare you for some of the unique challenges related to assessing obese patients (e.g., the physical exam and chest x-ray). Key Point summaries in every chapter emphasize the learning objectives and provide an easy-to-find overview. A list of abbreviations common to assessment is included on the inside of the cover for quick reference. Procedure checklists for common assessment procedures are included in a new appendix, with PDFs of the forms available on the Evolve website. A leader in respiratory care education for more than 40 years, Egan's Fundamentals of Respiratory Care, 10th Edition delivers a comprehensive introduction to the field of respiratory care and keeps you up-to-date on the latest advances and trends in professional practice today. With this new edition, you'll gain a thorough understanding of the role of respiratory therapists (RTs), scientific bases for treatment, and clinical applications. In-depth discussions progress from the principles of respiratory care to applied anatomy and physiology, assessment, discussion of specific respiratory illnesses, basic therapy, acute and critical care, and preventive and long-term care. Egan's is the most recommended and trusted text for NBRC examination preparation. UNIQUE! Egan's trusted reputation as the preeminent fundamental respiratory care textbook delivers comprehensive coverage while keeping you up to date with this ever-changing profession. UNIQUE! Expert authorship from the leading figures in respiratory care ensures critical content is covered thoroughly and accurately. UNIQUE! Mini Clinis give you an opportunity to apply text content to actual patient care through short, critical-thinking vignettes. UNIQUE! Rules of Thumb highlight rules, formulas, and key points that are important to clinical practice. Excerpts of all 49 published Clinical Practice Guidelines provide you with important information regarding indications/contraindications, hazards and complications, assessment of need, and assessment of outcome and monitoring. Therapist Driven Protocols (TDPs) used by RTs in hospitals to assess patients, initiate care, and evaluate outcomes, are incorporated throughout the text to demonstrate the value of following an established protocol. Learning Objectives highlight key content at the beginning and at the end of each chapter in a bulleted section and parallel the three areas tested on the NBRC exam: recall, analysis, and application. Updated content aligned with the 2009 NBRC CRT Summary Content Outline ensures the text is both current and clinically accurate. Expanded use of the NBRC Exam Matrix Correlation Chart throughout all Evolve online resources makes test preparation easier. Keyed chapter-by-chapter to the market-leading text, Workbook for Egan's Fundamentals of Respiratory Care, 11th Edition is filled with more NBRC-style, case study application, and analysis-style questions that prepare you to excel on exams. This comprehensive Workbook features a new design with a second color that highlights important information, breaks up text, and offers better usability. New chapters correlate with the text to keep you current, and a wide range of activities engage and guide you through some of the text's more difficult concepts. Word Wizard tests your knowledge of key terms. Meet the Objectives assess your learning outcomes. Key Points identify key concepts from the chapter. Case studies test comprehension of assessment and intervention strategies and help you practice critical thinking. What Does the NBRC Say? provides information on expectations of NBRC, gives a sampling of NBRC-style multiple-choice questions, and helps you prepare for the certification exam. Food for Thought offers thought-provoking tips and questions. Information Age highlights all the resources available to you on the web. A Picture is Worth (including Pneumo-nuggets) features a mixture of labeling exercises and "nuggets" of information in the form of tips or questions. Chapter-specific exercises offer various activities, such as exercises on ethics, equipment, and mathematics. NEW! Five all-new chapters bring you the most up-to-date information on the fundamentals of respiratory care research, trauma, burns, near drowning, patient ventilator interaction, flexible bronchoscopy, and extracorporeal life support (ECLS). NEW! A second color helps highlight pertinent information, breaks up text, and provides a better overall look. EXPANDED! More NBRC-style questions help you pass the NBRC examination. NEW! Updated content reflects changes in the 11th edition of the text. This is an integrated textbook on the respiratory system, covering the anatomy, physiology and biochemistry of the system, all presented in a clinically relevant context appropriate for the first two years of the medical student course. One of the seven volumes in the Systems of the Body series. Concise text covers the core anatomy, physiology and biochemistry in an integrated manner as required by system- and problem-based medical courses. The basic science is presented in the clinical context in a way appropriate for the early part of the medical course. There is a linked website providing self-assessment material ideal for examination preparation. A leader in respiratory care education for more than 35 years, this comprehensive textbook lays a strong foundation for a successful career. You'll gain a thorough understanding of the role of respiratory therapists (RTs), a scientific basis for treatment, and clinical applications. In-depth discussions progress from the principles of respiratory care to applied anatomy and physiology, assessment, discussion of specific respiratory illnesses, basic therapy, acute and critical care, and preventive and long-term care. Clinical Practice Guidelines (CPGs) and Therapist Driven Protocols (TDPs) in appropriate chapters familiarize you with patient care guidelines and decision trees as they are used in practice. A full-color format makes the text easier to read and brings out key detail in the illustrations. Mini-Clinis provide short vignettes applying content in the text to actual patient care, asking you to think critically on problems you may encounter. Clinical Practice Guidelines (CPGs) cover the steps of patient care with important information on indications/contraindications, hazards and complications, assessment of need, assessment of outcome, and monitoring. 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Cardiovascular and Respiratory Systems: Modeling, Analysis, and Control uses a principle-based modeling approach and analysis of feedback control regulation to elucidate the physiological relationships. Models are arranged around specific questions or conditions, such as exercise or sleep transition, and are generally based on physiological mechanisms rather than on formal descriptions of input-output behavior. The authors ask open questions relevant to medical and clinical applications and clarify underlying themes of physiological control organization. Current problems, key issues, developing trends, and unresolved questions are highlighted. Researchers and graduate students in mathematical biology and biomedical engineering will find this book useful. It will also appeal to researchers in the physiological and life sciences who are interested in mathematical modeling. This convenient, money-saving package is a must-have for students training for a career in Respiratory Therapy. It includes Eagan's Fundamentals of Respiratory Care text and workbook.