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Respiratory signals can be acquired easily and non-invasively via the measurement of thoracic excursion, pleural/chest wall vibration, and effort-related changes in the external auditory canal. These signals are present in healthy individuals throughout adulthood, especially during exercise. Increased respiratory rates and tidal volume (V~T~) in patients with respiratory illnesses, such as chronic obstructive pulmonary disease (COPD), suggest that respiratory physiology can be used to monitor the condition of patients. This book is a collection of authoritative, well-written reviews of the current understanding of the physiology, physics, and clinical applications of respiratory physiology. The chapters cover the following aspects of respiratory physiology: respiratory system mechanics and regulation; mechanics of breathing; the lung and airways; respiratory muscle, lung, and chest wall mechanics; pleural and pericardial diseases; gas exchange, the cardiopulmonary system, and mechanical ventilation. Important topics in the topic covered in the book, such as breathing pattern, respiratory control, and assessment of respiratory system mechanics, are briefly reviewed in the sections of the book that cover these topics. The chapters that cover the topics are organized by the above-mentioned aspects of respiratory physiology. The book is composed of 3 parts: Part I (Respiratory System Mechanisms and Regulation) includes sections on respiratory system mechanics, respiratory control, and mechanical ventilation. Part II (Mechanics of Breathing) includes sections on mechanics of breathing, lung and chest wall mechanics, and respiratory muscle mechanics. Part III (Pleural and Pericardial Diseases) includes sections on pleural and pericardial diseases. The book is also accompanied by an introductory chapter on respiratory physiology. The chapters in the book are authored by internationally recognized researchers and scientists who have reviewed the literature for the purpose of providing a comprehensive review of the important aspects of respiratory physiology. Each chapter is unique and includes an introductory paragraph to define the scope of the chapter followed by a summary of the key topics, major concepts, and most important results from the literature. However, all chapters cover the topics of interest by focusing on the following aspects: respiratory system mechanics and regulation; mechanics of breathing; the lung and airways; respiratory muscle mechanics; pleural and pericardial diseases. In the conclusion section of the introductory chapter, the authors highlight the significant contributions of the contributors to this book and summarize the significance of the topics covered in the book and the contributions made by the authors. As is 520fdb1ae7