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With mathematical and computational models furthering our understanding of lung mechanics, function and disease, this book provides an all-inclusive introduction to the topic from a quantitative ...The first book to describe lung mechanics from a quantitative standpoint. Focusing on inverse modeling, it develops in a logical progression from simple to state-of-the-art dynamic and nonlinear models. Example applications to experimental data are presented throughout the book, together with problem sets at the end of each chapter."With mathematical and computational models furthering our understanding of lung mechanics, function and disease, this book provides an all-inclusive introduction to the topic from a quantitative standpoint. This page intentionally left blank Lung Mechanics With mathematical and computational models furthering our understanding of lung mechanics, function, and disease, this book provides an all-inclusive introduction to the topic from a quantitative standpoint.