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Lung Mechanics: An Inverse Modeling Approach

By Jason H. T. Bates
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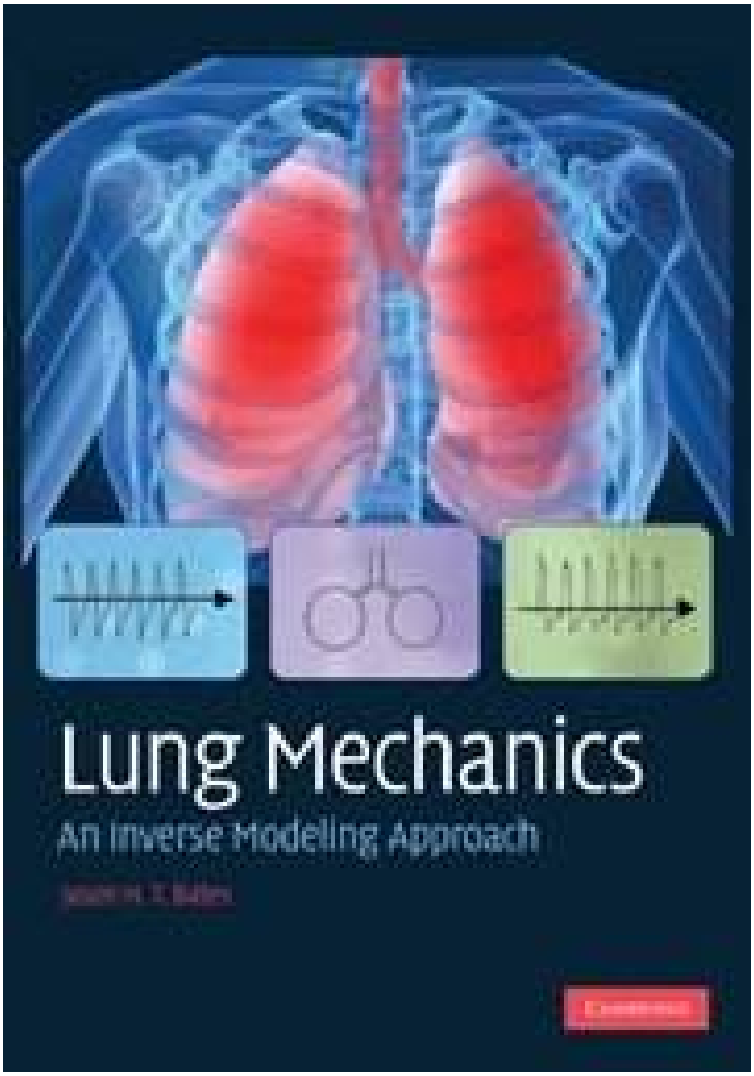

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With mathematical and computational models furthering our understanding of lung mechanics function and disease this book provides an all inclusive introduction to the topic from a quantitative standpoint Focusing on inverse modeling the reader is guided through the theory in a logical progression from the simplest models up to state of the art models that are both dynamic and nonlinear Key tools used in biomedical engineering research such as regression theory li In a clearly written language Jason Bates provides a grand tour into the frontiers of the bioengineering of lung mechanics and physiology The reader is elegantly led through the intricacy and beauty of forward and inverse modeling applied to the lung with p

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