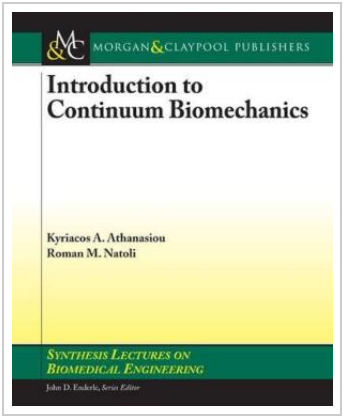




# Introduction to Continuum Biomechanics

By Kyriacos Athanasiou

Morgan & Claypool. Paperback. Condition: New. 220 pages. Dimensions: 9.1in. x 7.5in. x 0.7in.This book is concerned with the study of continuum mechanics applied to biological systems, i. e. , continuum biomechanics. This vast and exciting subject allows description of when a bone may fracture due to excessive loading, how blood behaves as both a solid and fluid, down to how cells respond to mechanical forces that lead to changes in their behavior, a process known as mechanotransduction. We have written for senior undergraduate students and first year graduate students in mechanical or biomedical engineering, but individuals working at biotechnology companies that deal in biomaterials or biomechanics should also find the information presented relevant and easily accessible. Table of Contents: Tensor Calculus Kinematics of a Continuum Stress Elasticity Fluids Blood and Circulation Viscoelasticity Poroelasticity and Thermoelasticity Biphasic Theory This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



### *Reviews*

*This is actually the best book i actually have go through right up until now. It generally will not price an excessive amount of. I discovered this book from my dad and i suggested this book to understand.*

-- ***Norma Carroll***

*This book might be worth a read, and superior to other. Of course, it really is engage in, still an interesting and amazing literature. It is extremely difficult to leave it before concluding, once you begin to read the book.*

-- ***Prof. Valentin Hane MD***