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Biomechanics of the Gravid Human Uterus

Roustem N. Miftahof, Hong Gil Nam

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The complexity of human uterine function and regulation is one of the great wonders of nature and represents a daunting challenge to unravel. This book is dedicated to the biomechanical modeling of the gravid human uterus and gives an example of the application of the mechanics of solids and the theory of soft shells to explore medical problems of labor and delivery. After a brief overview of the anatomy, physiology and biomechanics of the uterus, the authors focus mainly on electromechanical wave processes, their origin, dynamics, and neuroendocrine and pharmacological modulations. In the last chapter applications, pitfalls and problems related to modeling and computer simulations of the pregnant uterus and pelvic floor structures are discussed. A collection of exercises is added at the end of each chapter to help readers with self-evaluation.

The book serves as an invaluable source of information for researchers, instructors and advanced undergraduate and graduate students interested in systems biology, applied mathematics and biomedical engineering.

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