



Biomechanics of the Female Pelvic Floor

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Biomechanics of the Female Pelvic Floor From Academic Press

Biomechanics of the Female Pelvic Floor, Second Edition, is the first book to specifically focus on this key part of women's health, combining engineering and clinical expertise. This edited collection will help readers understand the risk factors for pelvic floor dysfunction, the mechanisms of childbirth related injury, and how to design intrapartum preventative strategies, optimal repair techniques, and prostheses.

The authors have combined their expertise to create a thorough, comprehensive view of female pelvic floor biomechanics in order to help different disciplines discuss, research, and drive solutions to pressing problems. The book includes a common language for the design, conduct, and reporting of research studies in female PFD, and will be of interest to biomechanical and prosthetic tissue engineers and clinicians interested in female pelvic floor dysfunction, including urologists, urogynecologists, maternal fetal medicine specialists, and physical therapists.

- Contains contributions from leading bioengineers and clinicians, and provides a cohesive multidisciplinary view of the field
- Covers causes, risk factors, and optimal treatment for pelvic floor biomechanics
- Combines anatomy, imaging, tissue characteristics, and computational modeling development in relation to pelvic floor biomechanics

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Editorial Review

Review

"The engineering concepts are clearly presented and the clinical applications are wide ranging and relevant. Overall, this would be a helpful addition for any female pelvic medicine and reconstructive surgery group or pelvic floor biomechanical research group. Score: 82 - 3 Stars." --**Doody's, *Biomechanics of the Female Pelvic Floor***

From the Back Cover

This multi-disciplinary and comprehensive edited collection covers all aspects of pelvic floor biomechanics by combining engineering and clinical expertise.

- Contains contributions from leading bioengineers and clinicians, and provides a cohesive multi-disciplinary view of the field
- Covers causes, risk factors, and optimal treatment for Pelvic Floor Biomechanics
- Combines anatomy, imaging, tissue characteristics and computational modelling development in relation to pelvic floor biomechanics

Biomechanics of the Female Pelvic Floor is the first book to specifically focus on this key part of women's health, and combines engineering and clinical expertise. This edited collection will help you to understand risk factors for pelvic floor dysfunction (PFD), the mechanisms of childbirth related injury, and to design intrapartum preventative strategies, optimal repair techniques, and prostheses.

Dr Hoyte and **Dr Damaser** have combined their expertise to create a thorough, comprehensive view of female pelvic floor biomechanics in order to help different disciplines discuss, research, and drive solutions to pressing problems related to female PFD.

This book provides a common language for the design, conduct, and reporting of research studies in female PFD. It will be of interest to biomechanical, prosthetic & tissue engineers interested in the female pelvic floor, as well as to clinicians interested in female PFD – urologists, urogynecologists, maternal fetal medicine specialists and physical therapists.

About the authors

Lennox Hoyte Director, Urogynecology and Female Pelvic Reconstructive Surgery, USF College of Medicine Medical Director, Urogynecology and Robotic Surgery, Tampa General Hospital Chief Medical Information Officer , USF Physicians Group

Dr. Hoyte is a fellowship trained specialist in Urogynecology and Female Pelvic Medicine and Reconstructive Surgery (FPMRS). Dr. Hoyte specializes in advanced robotic surgery to correct vaginal prolapse, and is one of the leading robotic prolapse surgeons in the world. He has trained over 50 surgeons in the use of the Da Vinci robotic surgical system. In addition to speaking engagements, he has written two

books on the subject – "prolapse repair", and "robotic hysterectomy", designed specifically to educate women about treatment options for prolapse.

Margot Damaser Cleveland Clinic Department of Biomedical Engineering

Dr. Damaser maintains a Urological Biomechanics Laboratory where they investigate the causes of, and treatments for, female pelvic floor disorders. She received her undergraduate degree in bioengineering sciences from Harvard University, and her doctorate in bioengineering from the University of California at Berkeley. She was awarded the Presidential Early Career Award for Scientists and Engineers in 2000, and the Rehabilitation Research Career Scientist Award, Department of Veterans Affairs in 2004. She is also a consultant for Astellas Scientific and Medical Affairs, Inc.

About the Author

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Medical Director, Urogynecology and Robotic Surgery, Tampa General Hospital

Chief Medical Information Officer , USF Physicians Group

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