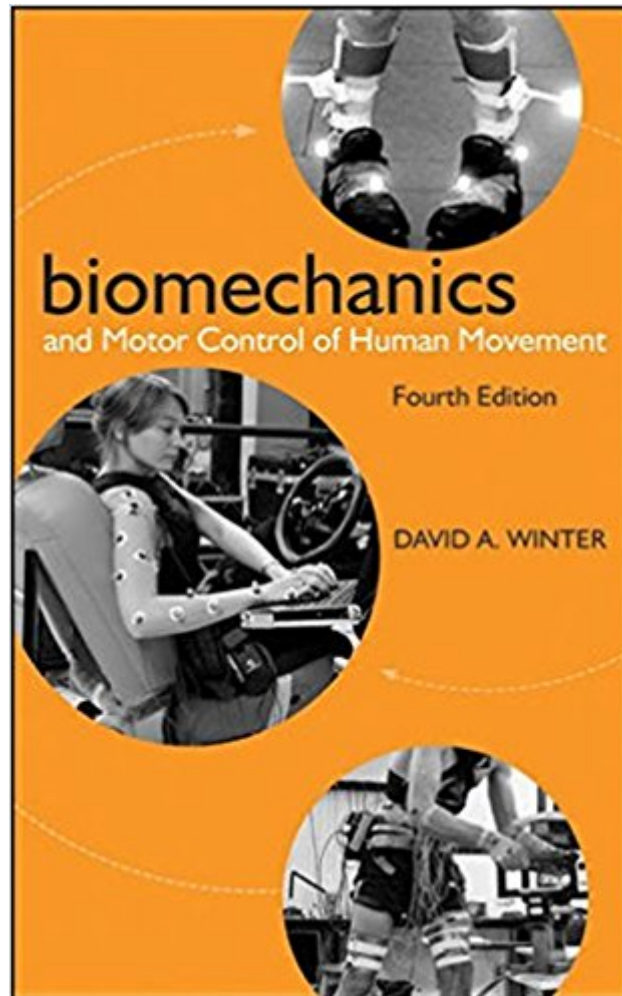




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Biomechanics And Motor Control Of Human Movement



Synopsis

The classic book on human movement in biomechanics, newly updated Widely used and referenced, David Winter's *Biomechanics and Motor Control of Human Movement* is a classic examination of techniques used to measure and analyze all body movements as mechanical systems, including such everyday movements as walking. It fills the gap in human movement science area where modern science and technology are integrated with anatomy, muscle physiology, and electromyography to assess and understand human movement. In light of the explosive growth of the field, this new edition updates and enhances the text with: Expanded coverage of 3D kinematics and kinetics New materials on biomechanical movement synergies and signal processing, including auto and cross correlation, frequency analysis, analog and digital filtering, and ensemble averaging techniques Presentation of a wide spectrum of measurement and analysis techniques Updates to all existing chapters Basic physical and physiological principles in capsule form for quick reference An essential resource for researchers and student in kinesiology, bioengineering (rehabilitation engineering), physical education, ergonomics, and physical and occupational therapy, this text will also provide valuable to professionals in orthopedics, muscle physiology, and rehabilitation medicine. In response to many requests, the extensive numerical tables contained in Appendix A: "Kinematic, Kinetic, and Energy Data" can also be found at the following Web site: www.wiley.com/go/biomechanics

Book Information

Hardcover: 384 pages

Publisher: Wiley; 4 edition (October 12, 2009)

Language: English

ISBN-10: 0470398183

ISBN-13: 978-0470398180

Product Dimensions: 6.4 x 1 x 9.5 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 7 customer reviews

Best Sellers Rank: #102,997 in Books (See Top 100 in Books) #23 in Books > Engineering & Transportation > Engineering > Bioengineering > Biomedical Engineering #32 in Books > Engineering & Transportation > Engineering > Mechanical > Drafting & Mechanical Drawing #70 in Books > Medical Books > Basic Sciences > Pathophysiology

Customer Reviews

Considered one of the founding fathers of biomechanics as we know it today, DAVID A. WINTER, PHD, is Distinguished Professor Emeritus in Kinesiology at the University of Waterloo. His many distinctions include Fellow of the Institute of Electrical and Electronics Engineers and the Canadian Society for Biomechanics. He was the first recipient of the Career Investigators Award by the Canadian Society of Biomechanics, the Lifetime Achievement Award by the Gait and Clinical Movement Analysis Society, and the Muybridge Medal by the International Society of Biomechanics. In addition to this text, he is author of three other texts on the biomechanics and electromyography of normal and pathological gait, balance during standing and walking, and signal processing in the movement sciences.

This is regarded as the classic text book on the subject and for good reason. Winter's writing is clear and concise and he covers the entire subject beautifully. It is a great source for anyone interested in the subject.

We actually refer to this as the bible of biomechanics in our lab. I decided I had to have this book after looking at the third edition and realizing how much applicable information it contained to not only my thesis, but most projects in biomechanics. Very comprehensive book. I do wish it would have a little bit of applied statistics in it, but a man can dream right?

One of my favorite biomechanics books out there. A must own for anyone studying motion capture. Has all of the basics you need to know, including many references.

for professionals, only.

I bought this book for my biomechanics classthe book was brand newin perfect conditionsexactly what I needed for my class

A classic !

Anyone looking into biomechanics and man-machine interfacing robotics should read this book! It has a bit of everything to get you started and feel comfortable with the material by the end.

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