



# Biomechanics and Motor Control of Human Movement

*David A. Winter*

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## **Biomechanics and Motor Control of Human Movement** David A. Winter

A thorough update of the classic book on human movement in biomechanics

Biomechanics and Motor Control of Human Movement, Third Edition is the thoroughly updated and retitled version of the widely used Biomechanics of Human Movement. Integrating a common set of data and analyses with reliable material on biomechanical techniques, this up-to-date edition examines techniques used to measure and analyze all body movements as mechanical systems, including such everyday movements as walking.

This highly informative and accessible Third Edition treats each limb of the body as a separate segment connected at hinge joints. Actuators replace muscles, and torque motors replace the net effect of all muscles. Descriptions of movements are given as well as examinations of the cause of the movement at kinetic and electromyographic levels.

Biomechanics and Motor Control of Human Movement, Third Edition features:

- \* New material on 3D kinematics and kinetics emphasizing motor control
- \* Expanded coverage on image measurement systems
- \* New information on 3D center-of-mass estimates
- \* Models of the kinetics of balance control
- \* The latest research findings on fundamental relationships
- \* New biophysical models of EMG detection, as well as standards for recording and reporting

Complete with basic physics principles presented in capsule form for quick reference, Biomechanics and Motor Control of Human Movement, Third Edition is an essential resource for students and researchers.

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