

# FUNDAMENTALS OF BIOMECHANICS

Equilibrium, Motion, and Deformation

NIHAT ÖZKAYA  
MARGARETA NORDIN

*Fundamentals of Biomechanics* is a practical guide to the teaching and learning and to the research in 2 disciplines an increasingly broad-based interdisciplinary course that bridges the gap between therapy-oriented physical therapists and those who require an advanced background in mathematics and engineering principles. It is an excellent resource for health-care professionals with an interest in biomechanics for both career development in academic, physical, and engineering specialties. It also serves as an introduction for engineers who wish to explore the field of biomechanics.

The first volume of three complementary parts. The first part introduces the basic concepts of mechanics, provides the mathematical tools necessary to understand these concepts, outlines the procedure for solving various "equilibrium" and applies the procedure to simple mechanical systems and the human musculoskeletal system. The second part is devoted to the "static" description with applications to human motion analysis and static orthotics. The third part of the text provides techniques for analyzing the "dynamic" characteristics of systems with applications to pathologic biomechanics. Over 100 sample problems with solutions discuss most the advances of engineering knowledge in human physiology. Over 100 high-quality illustrations provide a comprehensive treatment of static and dynamic.

Knowledge of the biomechanical aspects and structural behavior of the human musculoskeletal system is an essential prerequisite to any experimental or analytical study of its physiological function in the body. By highlighting the important design features, various exercises that are presented throughout in the biological and physiological aspects of the human body, and their treatment by the structural behavior of the human body from an engineering perspective, this volume is an excellent resource for those who plan to continue studies in biomechanics.

#### About the Authors

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NIHAT ÖZKAYA  
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# Fundamentals Of Biomechanics Equilibrium Motion And Deformation

**Michael Hoelscher**



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