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Fundamentals of Biomechanics: Equilibrium, Motion, and Deformation

By Nihat Özkaya, Margareta Nordin, David Goldsheyder, Dawn Leger



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Biomechanics applies the principles and rigor of engineering to the mechanical properties of living systems. This book integrates the classic fields of mechanics--statics, dynamics, and strength of materials--using examples from biology and medicine. Fundamentals of Biomechanics is excellent for teaching either undergraduates in biomedical engineering programs or health care professionals studying biomechanics at the graduate level. Extensively revised from a successful first edition, the book features a wealth of clear illustrations, numerous worked examples, and many problem sets. The book provides the quantitative perspective missing from more descriptive texts, without requiring an advanced background in mathematics. It will be welcomed for use in courses such as biomechanics and orthopedics, rehabilitation and industrial engineering, and occupational or sports medicine.



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Editorial Review

Review

From the reviews of the third edition:

“This is the third edition of book on the basic mechanics related to body joints and muscle functions. ... The audience includes orthopedic surgery residents and bioengineering students. ... This is a well-written publication with very good illustrations. It is a good reference on biomechanics and would be of benefit to orthopedics residents and others involved in related research.” (Riad Barmada, Doody’s Review Service, October, 2012)

From the Back Cover

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About the Author

Dawn Leger, Ph.D. Margareta Nordin, Dr.Sci. David Goldsheyder, M.S., M.A. CPE.

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