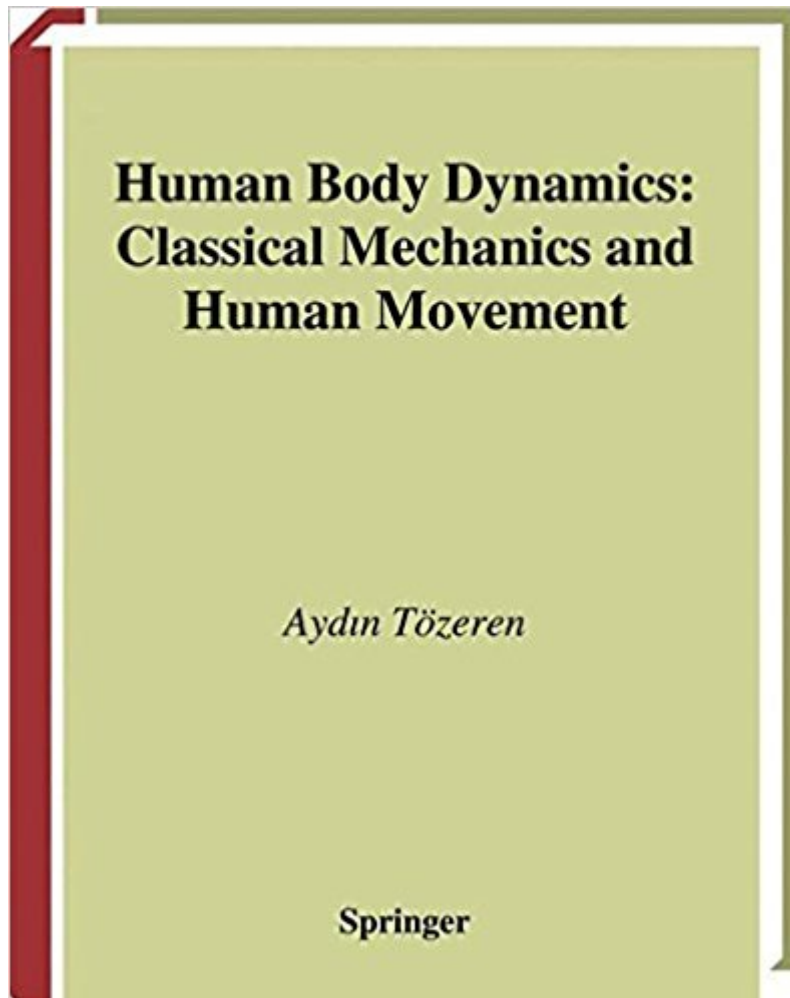




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Human Body Dynamics: Classical Mechanics And Human Movement



Synopsis

A quantitative approach to studying human biomechanics, presenting principles of classical mechanics using case studies involving human movement. Vector algebra and vector differentiation are used to describe the motion of objects and 3D motion mechanics are treated in depth. Diagrams and software-created sequences are used to illustrate human movement.

Book Information

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Customer Reviews

From the reviews: "This book represents a very ambitious undertaking of providing, in a single volume, a comprehensive exposition of the kinematics and dynamics governing the motion of the human body as well as a complete course of general mechanics. The author has been remarkably successful in achieving both objectives. He has produced a very accessible text without sacrificing the accuracy of arguments and avoiding undue simplifications of the problems. The book should prove to be a great value to the practitioners in orthopedics, sports medicine and bioengineering research. University students interested in careers in medicine or bioengineering may find it an interesting alternative to the standard courses in mechanics." Maciej P. Bieniek, Renwick Professor Emeritus of Engineering Mechanics, Columbia University "Human Body Dynamics is a remarkable book. A concise, comprehensive, well-written and well-illustrated first chapter gives a necessary introduction to the anatomy of the human body. In the following chapters human body dynamics is explored using the principles of classical mechanics. The concluding chapter deals with the methods of three-dimensional mechanics. With these powerful tools, a myriad of very interesting

problems are solved. This, I would say is the dessert of the feast." H. Buelent Atabek, Professor Emeritus of Biomedical Engineering, Catholic University of America

This book kinda skims along the basics of human body dynamics. It worked really well for my class, a mechanical engineering elective. My profesor has his doctorate both as a mechanical engineer and as a medical doctor, He believes that this is the best book out currently but is still very lacking. Especially when dealing directly with engineering.

A very good presentation of the knowledge of engineering mechanics applied to human motion. The first chapter provides a necessary and sufficient outline of the human system and the related studies. After that, basic engineering mechanics theories are discussed with elaborations and examples zeroing on human body motions. A candidate for a textbook for undergraduate course in biomechanics, and a book to be owned by engineering mechanics instructors.

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