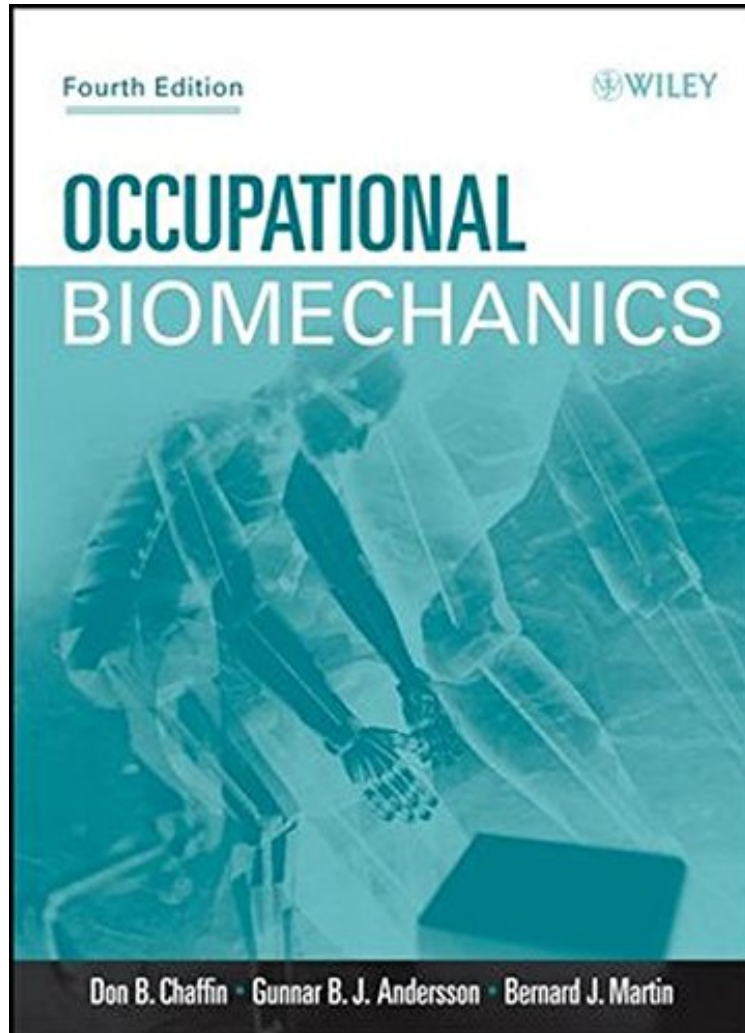


# Occupational Biomechanics

*Don B. Chaffin, Gunnar B. J. Andersson, Bernard J. Martin*  
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**Don B. Chaffin, Gunnar B. J. Andersson, Bernard J. Martin : Occupational Biomechanics** before purchasing it in order to gage whether or not it would be worth my time, and all praised Occupational Biomechanics:

2 of 2 people found the following review helpful. Biomechanics for ergonomics and occupational healthBy Seo LabThe book covers a wide range of topics from basic musculoskeletal structures and physiology to anthropometry data and biomechanical analysis of loading on tissues for various physical activities. Yet, the book is concise enough to be useful as a starter reading material for beginning biomechanists, and as a textbook for a graduate-level intro-biomechanics course. The book also covers ample topics on application of biomechanical principles to ergonomics and occupational health.The Hand Rehabilitation Lab at the University of Wisconsin-Milwaukee: [...].0 of 0 people found the following review helpful. Five StarsBy Shawn M.Very informative read.0 of 0 people found the following review

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Praise for previous editions of Occupational Biomechanics "This book is a valuable resource for any advanced ergonomist interested in physical ergonomics . . . provides valuable research information." -Ergonomics in Design "[This book] represents a distillation of the authors' combined years of experience in applying biomechanics in various industries and work situations . . . I recommend this book to anyone, regardless of discipline, who is interested in understanding the many biomechanical factors which must be considered when trying to effect the prevention and reduction of musculoskeletal injuries in the workplace." -Journal of Biomechanics "Impressive descriptions of biomechanical concepts and worksite considerations . . . based not only on mechanical and mathematical principles, but on solid anatomical and physiologic constructs . . . a very valuable reference source." -Research Communications in Chemical Pathology and Pharmacology

**THE DEFINITIVE TEXT ON DESIGNING FOR THE DEMANDS OF TODAY'S WORKPLACE** With critical applications in manufacturing, transportation, defense, security, environmental safety and occupational health, and other industries, the field of occupational biomechanics is more central to industrial design than ever before. This latest edition of the popular and widely adopted Occupational Biomechanics provides the foundations and tools to assemble and evaluate biomechanical processes as they apply to today's changing industries, with emphasis on improving overall work efficiency and preventing work-related injuries. The book expertly weaves engineering and medical information from diverse sources and provides a coherent treatment of the biomechanical principles underlying the well-designed and ergonomically sound workplace. **NEW TO THIS THOROUGHLY REVISED AND UPDATED FOURTH EDITION:** \* 150 new references and many new illustrations \* Major changes within each chapter that reflect recent and significant findings \* Recent research in musculoskeletal disorders \* New measurement techniques for biomechanical parameters and numerous international initiatives on the subject Presented in an easy-to-understand manner and supported by over 200 illustrations and numerous examples, Occupational Biomechanics, Fourth Edition remains the premier one-stop reference for students and professionals in the areas of industrial engineering, product and process design, medicine, and occupational health and safety.

"This excellent book written by the most prominent authors in the field is a must have for all professionals in this field." (The Applied Ergonomics International News) From the Publisher Reflecting the authors' more than 35 years of combined experience in applying biomechanics in various industries, it presents a comprehensive and accessible examination of the widely scattered literature in this field. As such it explores the biomechanical principles both in the prevention of musculoskeletal disorders in industry and working conditions and worker performance in general. This Second Edition reflects the tremendous amount of rapidly emerging knowledge that has taken place since the publication of the earlier volume with a balance struck between introducing new findings and keeping it simple and of a reasonable size.

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