



## Occupational Biomechanics, 2nd Edition

By Don B. Chaffin, Gunnar B. J. Andersson

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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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## **Occupational Biomechanics, 2nd Edition** By Don B. Chaffin, Gunnar B. J. Andersson Bibliography

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### **Editorial Review**

#### Review

"...this book is a valuable resource for any advanced ergonomist interested in physical ergonomics...provides valuable research information.." --Ergonomics in Design Summer 2000

#### 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.

#### From the Back Cover

From the reviews of the Second Edition:

"[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.

Now in its third edition, this volume stands as the definitive text on occupational biomechanics—a science dealing with the physiological loads and stresses placed on the musculoskeletal system during physical work. It 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. In this revision, the authors update the state of current knowledge in several key areas, including epidemiological support of occupational biomechanics, mechanical aspects of muscle actions during work, biomechanical models of exertions, postural-analysis methods, materials and load-handling evaluation methods, guidelines for various types of work, design considerations of VDT workstations, hand tools, and more.

Complete with 75 new illustrations and over 200 new references, Occupational Bio-mechanics is an excellent one-stop reference for students and professionals in industrial engineering, product and process design, medicine, and occupational health and safety.

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**Billy Reynolds:**

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