

# Occupational Biomechanics Don B Chaffin

**Don B. Chaffin, Gunnar B. J. Andersson, Bernard J. Martin**

*Occupational Biomechanics* Don B. Chaffin, Gunnar B. J. Andersson, Bernard J. Martin, 2006-05-05 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.

**Occupational Biomechanics** Don B. Chaffin, 1991

Chaffin's Occupational Biomechanics Bernard J. Martin, Maury A. Nussbaum, Gunnar B. J. Andersson, 2016-04-04

Occupational Biomechanics, Fifth Edition provides the foundations and tools to assemble and evaluate biomechanical processes. It describes the mechanical side of ergonomics. This revision of a well-established graduate-level text enables the book to stay current with research and development in occupational biomechanics. All chapters are updated to reflect recent data (anthropometry for example). New methods in biomechanics, simulation, movement recording, job analysis, hand activity, and muscle fatigue have been inserted. Rarely used job analysis methods (example: posture targeting) are removed and replaced by more contemporary methods (example: Hand Activity Level). Since worker selection is no longer a predominant issue, this part has been removed and the section on administrative controls is developed further. Review questions are updated and/or expanded.

*Working Postures and Movements* Nico J. Delleman, Christine M. Haslegrave, Don B. Chaffin, 2004-06-29 In most industries, musculoskeletal injuries are the most common work-related reason for employee absences. These injuries are often caused by static postures or repetitive movements that have to be maintained for many hours a day, such as intensive use of data entry devices, assembly work, parts inspection, equipment maintenance, manual materials handling, machinery operations, and vehicle operation, among others. In order to prevent such injuries, occupational health professionals, ergonomists, production engineers, and product designers need to know how to evaluate postures and movements, and understand how these are determined by the work environment, as well as what design tools are available to achieve less stressful working postures and movements. *Working Postures and Movements* describes many internationally accepted evaluation tools applicable to postures and movements in the work environment. Renowned researchers from around the world have brought together the latest scientific knowledge describing the anthropometry, biomechanics, physiology, psychophysics, and human perceptual-motor control basis for posture and movement assessment related to all the major body segments. The book addresses seating concepts, hand tool and pedal designs, foot-floor interfaces, digital human models for computer-aided design and engineering, and work organization (task duration, breaks, handling frequency) as they affect human performance and musculoskeletal injury reduction. Professionals responsible for identifying and improving conditions in the industries where such workplace injuries occur will find this volume to be a handy sourcebook, while teachers and students will find it to be a valuable reference.

**Anthropometry and Biomechanics** R. S. Easterby, K. H. E. Kroemer, Don B. Chaffin, 1982-05 Assessment of the physical dimensions of the human body and application of this knowledge to the design of tools, equipment, and work are certainly among the oldest arts and sciences. It would be an easy task if all anthropometric dimensions, of all people, would follow a general rule. Thus, philosophers and artists embedded their ideas about the most aesthetic proportions into ideal schemes of perfect proportions. Golden sections were developed in ancient India, China, Egypt, and Greece, and more recently by Leonardo DaVinci, or Albrecht Durer. However, such canons are fictive since actual human dimensions and proportions vary

greatly among individuals. The different physical appearances often have been associated with mental, physiological and behavioral characteristics of the individuals. Hypocrates (about 460-377 BC) taught that there are four temperaments (actually, body fluids) represented by four body types. The psychiatrist Ernst Kretschmer (1888-1964) proposed that three typical somatotypes (pyknic, athletic, aesthenic) could reflect human character traits. Since the 1940's, W. H. Sheldon and his coworkers devised a system of three body physiques (endo-, meso-, ectomorphic). The classification was originally qualitative, and only recently has been developed to include actual measurements.

**Biomechanics in Ergonomics** Shrawan Kumar, 2007-12-07 Safety or comfort? Can you truly have one without the other? Is it feasible to have both? Although by no means the only factor, a deep understanding of biomechanics plays a leading role in the design of work and workplaces that are both pain and injury free. Standing firmly on the foundation built by the previous edition, the second edition of Biom

**The Occupational Ergonomics Handbook** Waldemar Karwowski, William S. Marras, 1998-12-18 Occupational ergonomics and safety studies the application of human behavior, abilities, limitations, and other characteristics to the design, testing, and evaluation of tools, machines, systems, tasks, jobs, and environments for productive, safe, comfortable, and effective use. Occupational Ergonomics Handbook provides current, comprehensive knowledge in this broad field, providing essential, state-of-the-art information from nearly 150 international leaders of this discipline. The text assesses the knowledge and expertise applied to industrial environments: Providing engineering guidelines for redesigning tools, machines, and work layouts Evaluating the demands placed on workers by current jobs Simulating alternative work methods Determining the potential for reducing physical job demands based on the implementation of new methods Topics also include: Fundamental ergonomic design principles at work Work-related musculoskeletal injuries, such as cumulative trauma to the upper extremity (CTDs) and low back disorders (LBDs), which affect several million workers each year with total costs exceeding \$100 billion annually Current knowledge used for minimizing human suffering, potential for occupational disability, and related worker's compensation costs Working conditions under which musculoskeletal injuries might occur Engineering design measures for eliminating or reducing known job-risk factors Optimal manufacturing processes regarding human perceptual and cognitive abilities as well as task reliability Identifying the worker population affected by adverse conditions Early medical and work intervention efforts Economics of an ergonomics maintenance program Ergonomics as an essential cost to doing business Ergonomics intervention includes design for manufacturability, total quality management, and work organization. Occupational Ergonomics Handbook demonstrates how ergonomics serves as a vital component for the activities of the company and enables an advantageous cooperation between management and labor. This new handbook serves a broad segment of industrial practitioners, including industrial and manufacturing engineers; managers; plant supervisors and ergonomics professionals; researchers and students from academia, business, and government; human

factors and safety specialists; physical therapists; cognitive and work psychologists; sociologists; and human-computer communications specialists.

**Biomechanics and Biomaterials in Orthopedics** Dominique G. Poitout,2016-06-15 With the constant evolution of implant technology, and improvement in the production of allograft and bone substitutes, the armamentarium of the orthopaedic surgeon has significantly expanded. In particular, the recent involvement of nanotechnologies opens up the possibilities of new approaches in the interactive interfaces of implants. With many important developments occurring since the first edition of this well-received book, this updated resource informs orthopaedic practitioners on a wide range of biomechanical advances in one complete reference guide. *Biomechanics and Biomaterials in Orthopedics*, 2nd edition compiles the most prominent work in the discipline to offer newly-qualified orthopedic surgeons a summary of the fundamental skills that they will need to apply in their day-to-day work, while also updating the knowledge of experienced surgeons. This book covers both basic concepts concerning biomaterials and biomechanics as well as their clinical application and the experience from everyday practical use. This book will be of great value to specialists in orthopedics and traumatology, while also providing an important basis for graduate and postgraduate learning.

Physical Testing of Rubber Roger Brown,2006-03-06 Rubber is important in many engineering applications because of its unique properties. These properties must be measured with appropriate test methods developed specifically for this class of materials. This book provides, in one volume, comprehensive coverage of the procedures for measuring the whole range of the physical properties of rubber. This new edition presents an up-to-date introduction to the standard methods used for testing, quality control analysis, product evaluation, and production of design data for rubber and elastomers. Factors to be incorporated in the revision include the effects of newer instrumentation, the cutting back of laboratory staff, increased demands for formal accreditation and calibration, trend to product testing, overlap of thermoplastic elastomers with plastics and increased need for design data.

**Occupational Biomechanics** Erwin R. Tichauer,1975

Working Postures and Movements Nico J Delleman,Christine M Haslegrave,Don B Chaffin,2020-10-02 In most industries, musculoskeletal injuries are the most common work-related reason for employee absences. These injuries are often caused by static postures or repetitive movements that have to be maintained for many hours a day, such as intensive use of data entry devices, assembly work, parts inspection, equipment maintenance, manual materials handling, machinery operations, and vehicle operation, among others. The book addresses seating concepts, hand tool and pedal designs, foot-floor interfaces, digital human models for computer-aided design and engineering, and work organization (task duration, breaks, handling frequency) as they affect human performance and musculoskeletal injury reduction. Professionals responsible for identifying and improving conditions in the industries where such workplace injuries occur will find this volume to be a handy

sourcebook, while teachers and students will find it to be a valuable reference.

*Occupational Ergonomics* Waldemar Karwowski, William S. Marras, 2003-03-26 *Occupational Ergonomics: Engineering and Administrative Controls* focuses on prevention of work-related musculoskeletal disorders with an emphasis on engineering and administrative controls. Section I provides knowledge about risk factors for upper and lower extremities at work, while Section II concentrates on risk factors for work-related low back

*Work Practices Guide for Manual Lifting*, 1981

**Handbook of Digital Human Modeling** Vincent G. Duffy, 2016-04-19 The rapid introduction of sophisticated computers, services, telecommunications systems, and manufacturing systems has caused a major shift in the way people use and work with technology. It is not surprising that computer-aided modeling has emerged as a promising method for ensuring products meet the requirements of the consumer. The Handbook of D

*Designing Effective Organizations* William A. Pasmore, 1988-04-27 Many organizational designs are possible, and some are better than others. An effective organization produces excellent results by any standard measure while enhancing the energy and commitment of its members. In the past 40 years, sociotechnical organizational development has proven more successful than any other system in improving bottom-line organizational effectiveness while also paying attention to human values. This book brings together information found scattered throughout the literature and in unpublished documents. Presenting a coherent, jargon-free account of successful sociotechnical design of organizations, it addresses the often difficult prospect of organizational change and presents numerous real-life examples.

The Working Back William S. Marras, 2008-02-15 A systems approach to understanding and minimizing the causes of low back pain in the workplace Low back pain affects 80% of the population at some point during their lifetime; it is responsible for over 40% of the compensation costs for work-related injuries. This book provides an understanding of the mechanisms influencing low back pain in the workplace and indicates how low back pain might be prevented, saving employers extraordinary amounts in medical costs and protecting workers from the most common on-the-job injury. With a unique, multidisciplinary perspective that shows how various influences or risk factors can be considered collectively, *The Working Back: A Systems View*: Explains basic concepts in anatomy and physiology that are essential to understanding and preventing low back pain Provides a systems perspective on the occupational causes of back pain, not only addressing factors such as spine loading, but also considering the potential impact of psychosocial and organizational interactions, genetics, and physiology Discusses implementing preventive engineering and administrative controls and integrating risk interventions into the workplace Offers an expert analysis of current medical research on low back pain in one comprehensive, accessible reference This book gives readers the knowledge to assess a work environment and prescribe effective interventions. It is a hands-on reference for ergonomists, manufacturing engineers, process engineers, industrial engineers and managers, safety

engineers, nurses, therapists, chiropractors, physicians, and workers with back pain. It is also an excellent resource for graduate or undergraduate students of kinesiology, physiology, ergonomics, physical therapy, nursing, industrial design, engineering, and general medicine.

*Biomechanics of the Upper Limbs* Andris Freivalds, 2011-02-16 There is already a wealth of literature covering cumulative trauma disorders and medical management, as well as the biomechanics of manual material handling and lower back problems. However, despite a spike in the number of work-related musculoskeletal disorders (WRMSDs) in the upper limbs—due to a sharp increase in the amount of computer-related jobs—few if any books have focused exclusively on WRMSDs, until now. *Biomechanics of the Upper Limbs: Mechanics, Modeling and Musculoskeletal Injuries, Second Edition* offers vital information and tools to improve analysis of external forces and their effects on the human body. This can help ergonomists better understand job stressors and the role they play in the development of disorders, enabling them to modify the work environment and educate practitioners to better control harmful situations. Using the author's medical and engineering expertise to distill essential subject matter and useful technical data, this comprehensive text explores: Biomechanics of the upper limbs and the motor control system The structure and physiology of the human musculoskeletal and neuromuscular systems Recent research findings and solutions to various ergonomic problems Models of various components of the neuromuscular systems, as well as larger systems in the upper limbs Risk factors for disorders and tools used to identify their causes Designed as a textbook for a typical semester-long graduate-level engineering or kinesiology course, this book includes a link to an ancillary website that offers materials such as PowerPoint® slides, sample exams, and an instructor's manual with complete solutions. It also serves as a practical, up-to-date, engineering-oriented resource for researchers, industrial ergonomists, industrial hygienists, and medical professionals who require supplementary material.

**Working Postures and Movements** Nico J. Delleman, Christine M. Haslegrave, Don B. Chaffin, 2004-06-29 In most industries, musculoskeletal injuries are the most common work-related reason for employee absences. These injuries are often caused by static postures or repetitive movements that have to be maintained for many hours a day, such as intensive use of data entry devices, assembly work, parts inspection, equipment maintenance, manual materials

**National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1991

*Cardiovascular Soft Tissue Mechanics* Stephen C. Cowin, Jay D. Humphrey, 2001 Cowin (New York Center for Biomedical Engineering) and Humphrey (biomedical engineering, Texas A&M U.) present seven papers that discuss current research and future directions. Topics concern tissues within the cardiovascular system (arteries, the heart, and biaxial testing of planar tissues such as heart valves). Themes include an emphasis on data on the underlying microstructure, especially collagen; the consideration of the fact that both arteries and the heart contain muscle and that there is, therefore, a need to quantify both the active and passive response; constitutive relations for active behavior; and the growth and remodeling of

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