

Occupational Biomechanics Don B Chaffin

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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

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a text for upper level undergraduate and graduate courses in human performance it uses an integrated scientific approach to explore solutions to problems in human movement as an interdisciplinary reference volume for biomechanists exercise physiologists motor behaviorists athletic trainers therapists kinesiologists and students biomechanics and biology of movement offers an in depth understanding and appreciation of the many factors comprising and affecting human movement in addition it will give you the insights and information you require to address and resolve individual performance problems book jacket

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 kretchmer 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

the human factors profession is currently attempting to take a more proactive role in the design of man machine systems than has been characteristic of its past realizing that human engineering contributions are needed well before the experimental evaluation of prototypes or operational systems there is a concerted effort to develop tools that predict how humans will interact with proposed designs this volume provides an overview of one category of such tools mathematical models of human performance it represents a collection of invited papers from a 1988 nato workshop the workshop was conceived and organized by nato research study group 9 rsg 9 on modelling of human operator behaviour in weapon systems it represented the culmination of over five years of effort and was attended by 139 persons from europe canada and

the united states rsg 9 was established in 1982 by panel 8 of the defence research group to accomplish the following objectives determine the utility and state of the art of human performance modelling encourage international research and the exchange of ideas foster the practical application of modelling research provide a bridge between the models and approaches adopted by engineers and behavioral scientists present the findings in an international symposium

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in orchestrating this book dr salvendy invited contributions from more than 100 of the foremost authorities around the world each of its 60 chapters was reviewed by an international advisory panel comprised of some of today s leading figures in human factors and ergonomics while each chapter establishes the theoretical and empirical foundations of the subject under discussion the book s approach is primarily applications oriented hence throughout readers will find case studies examples figures and tables that optimize the usability of the material presented it is an indispensable tool for human factors and ergonomics specialists safety and industrial hygiene professionals and engineers human resource professionals and managers in manufacturing and service industries and for educational institutions and government book jacket

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Introduction

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