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Título: Biomechanics In Ergonomics

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Sinopsis

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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 Biomechanics in Ergonomics establishes an understanding of gross biomechanical loads on the human system at the tissue level and then brings that understanding through to the whole body level.

Applications for the Real World

Produced under the aegis of editor Shrawan Kumar with contributors who are leading scholars in the field, the book contains unique chapters such as Exposure Assessment Tools and Techniques and Cumulative Load and Models. Also included is a chapter on hand tools, which have a real application to the field of ergonomics.

New and significantly revamped chapters:

Theories of occupational musculoskeletal injury causation
Anthropometry and Biomechanics _ Anthropometrics
Mechanical Exposure Assessment in the Design of Work
Determinant of Muscle Strength
Biomechanics of Gloves
The ACGIH TLV® for Hand Activity Level
Whiplash Injuries _ In Vitro Studies
Whiplash Injuries _ In Vivo Studies
Models in Manual Materials Handling
Revised NIOSH Lifting Equation
Whole Body Vibration
Cumulative Load and Models

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