



1st ed. 2017, XVIII, 1022 p. 415 illus., 293 illus. in color.

Printed book

Softcover

- approx. 189,99 € | approx. £141.50 | approx. \$219.00
- *approx. 203,29 € (D) | approx. 208,99 € (A) | approx. CHF 209.00

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Advances in Physical Ergonomics and Human Factors

Proceedings of the AHFE 2016 International Conference on Physical Ergonomics & Human Factors, July 27-31, Walt Disney World®, Florida, USA

Series: Advances in Intelligent Systems and Computing, Vol. 489

- Discusses human body's responses to physical and physiological work demands
- Identifies ergonomic risk factors in the workplace
- Describes new methods to assess and control risks in the workplace
- Explores critical aspects in the design of any human-centered technological system

This book reports on the state of the art in physical ergonomics and is concerned with the design of products, process, services, and work systems to assure their productive, safe, and satisfying use by people. With focus on the human body's responses to physical and physiological work demands, repetitive strain injuries from repetition, vibration, force, and posture are the most common types of issues examined, along with their design implications. The book explores a wide range of topics in physical ergonomics, which includes the consequences of repetitive motion, materials handling, workplace safety, and usability in the use of portable devices, design, working postures, and the work environment. Mastering physical ergonomics and safety engineering concepts is fundamental to the creation of products and systems that people are able to use, as well as the avoidance of stresses and minimization of the risk of accidents. Based on the AHFE 2016 International Conference on Physical Ergonomics & Human Factors, held on July 27-31, 2016 in Walt Disney World®, Florida, USA, the book provides readers with a comprehensive view of the current challenges in Physical Ergonomics, which are a critical aspect in the design of any human-centered technological system, and factors influencing human performance.

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