



Interventions, Controls, and Applications in Occupational Ergonomics (The Occupational Ergonomics Handbook, Second Edition)

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Completely revised and updated, taking the scientific rigor to a whole new level, the second edition of the Occupational Ergonomics Handbook is now available in two volumes. This new organization demonstrates the enormous amount of advances that have occurred in the field since the publication of the first edition. The editors have brought together researchers from a wide range of disciplines with pioneering practitioners in industry to cover a diverse list of ergonomics topics. The second edition not only provides more information but makes it more accessible. Each individual volume narrows the focus while broadening the coverage, supplying immediate access to important information. One of the most comprehensive sources for ergonomic knowledge available, providing both sound theory and practical examples, this book is a valuable resource for anyone in the field.

Interventions, Controls, and Applications in Occupational Ergonomics begins with descriptions of the elements of the ergonomics processes, including success factors for implementation of industrial ergonomics programs. It includes coverage of injury surveillance database systems and corporate health management for the design and evaluation of health in industrial organizations, ergonomics processes from the small and large industry perspectives, and human digital modeling, as well as facilities planning and organizational design and macro-ergonomics. Additional chapters present methods and techniques for engineering control, including tried and true strategies and pitfalls to avoid, and discuss the theory and practice of ergonomics interventions in the workplace.

Using this information as a cornerstone, the book addresses the issues of medical management of work-related musculoskeletal disorders, systems approach to rehabilitation, wrist splints, and application of the clinical lumbar motion monitor. It provides an overview of best practices for ergonomics intervention with respect to the design and use of chairs and office furniture, as well as design of computer keyboards and notebook computers. The book closes with discussions of the problem of medical errors, the challenge and rewards of applying ergonomics in developing areas, and the future of human work.



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