



Handbook of Human Factors and Ergonomics

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Much has changed in the ten years since the publication of the first edition of the Handbook of Human Factors and Ergonomics. Historic breakthroughs in digital and telecommunications technology and software design have given rise to a fast-paced environment in which humans and machines interact with a transparency and level of sophistication undreamed of just a decade ago. At the same time, new materials and design innovations have helped to make the workplace safer, happier, and more productive. Ongoing advances in the fields of human factors and ergonomics have been fundamental to this amazing progress, and the first edition of this book has had a vital role to play in precipitating these advances.

The publication of this Second Edition is very timely, with practical knowledge and technical background on virtually all aspects of physical, cognitive, and social ergonomics. As John F. Smith, Jr., Chairman, CEO, and President of General Motors writes in the Foreword, this book "can be a valuable source of information for any individual or organization committed to providing competitive, high-quality products and safe, productive work environments." Completely revised, updated, and containing 23 entirely new chapters, *Handbook of Human Factors and Ergonomics, Second Edition* offers readers by far the most comprehensive and state-of-the-art coverage of all aspects of the field.

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.

Handbook of Human Factors and Ergonomics, Second Edition is certain to have as profound an impact on the evolution of the science of designing for human use as did its predecessor. 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.

Over the past decade, human factors and ergonomics have come to play an ever more prominent role in everything from product design to productivity management. And no single book has done more to help precipitate their rise to prominence than the first edition of this handbook. Revised and updated to reflect the many important advances that have taken place in the field over the past decade, *Handbook of Human Factors and Ergonomics, Second Edition* repeats the success of its predecessor. It brings you:

- * Contributions from more than 100 recognized international experts
- * The most up-to-date coverage of equipment, workplace, and job design; design for health and safety; evaluation methodologies; and human-computer interaction
- * Completely revised and updated material, including 23 new chapters
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Editorial Review

From the Publisher

This is the second edition of a book that is considered the reference for the rapidly expanding fields of human factors and ergonomics. Over 100 contributors representing the top specialists in the world have written chapters on their areas of expertise. This edition has been thoroughly updated to include the most recent research and applications. It also includes state-of-the-art coverage of all aspects of the field such as equipment, workplace, and job design; design for health and safety; evaluation methodologies; and human-computer interaction.

From the Back Cover

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About the Author

GAVRIEL SALVENDY is the NEC Professor of Industrial Engineering at Purdue University. He was elected to the US National Academy of Engineering "for fundamental contributions to and professional leadership in human, physical, and cognitive aspects of engineering systems." He received an honorary doctorate from the Chinese Academy of Sciences "for great contributions to the development of science and technology and for great influence upon the development of science and technology in China." Dr. Salvendy was the founding chair of the International Commission on Human Aspects in Computing, headquartered in Geneva, Switzerland. He is an honorary fellow and life member of the Ergonomics Society. He is the author and coauthor of over 300 research publications-including over 150 journal papers and 20 books-and his work has appeared in six languages. His classic Handbook of Industrial Engineering, published by Wiley, is now in its second edition. Dr. Salvendy has advised corporations and governmental agencies in 23 countries on the human side of effective design, implementation, operation, and management of advanced technologies in the workplace. He earned his PhD in engineering production at the University of Birmingham, United Kingdom.

Users Review

From reader reviews:

Lillian Tobias:

This Handbook of Human Factors and Ergonomics book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you get by reading this book will be information inside this e-book incredible fresh, you will get facts which is getting deeper an individual read a lot of information you will get. That Handbook of Human Factors and Ergonomics without we recognize teach the one who studying it become critical in considering and analyzing. Don't be worry Handbook of Human Factors and Ergonomics can bring when you are and not make your carrier space or bookshelves' grow to be full because you can have it inside your lovely laptop even cellphone. This Handbook of Human Factors and Ergonomics having fine arrangement in word in addition to layout, so you will not truly feel uninterested in reading.

Maria Ives:

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Daniel Rhoads:

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Nancy Jones:

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