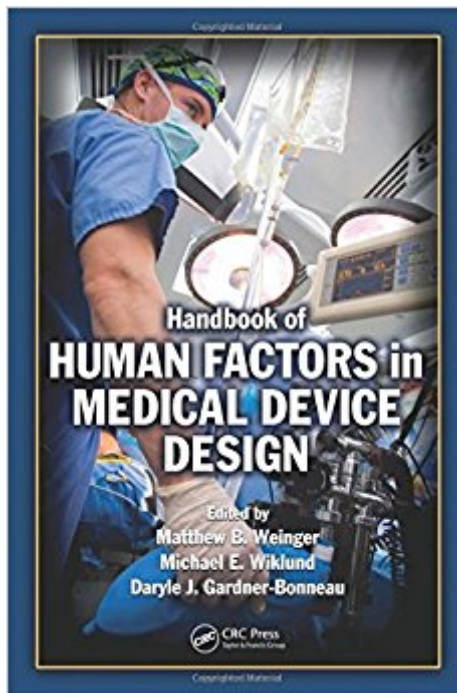




**Ebook Directory**  
the best source of ebook

The book was found

# Handbook Of Human Factors In Medical Device Design



## Synopsis

Developed to promote the design of safe, effective, and usable medical devices, Handbook of Human Factors in Medical Device Design provides a single convenient source of authoritative information to support evidence-based design and evaluation of medical device user interfaces using rigorous human factors engineering principles. It offers guidance on user-centric design supported by discussions of design issues, case studies, and examples. The book sets the foundation with coverage of fundamental topics such as aligning the interactive nature of medical devices to the expected use environments ranging from hospitals and ambulances to patients' homes, drawing on anthropometric and biomechanical data to ensure that designs match the intended users' bodies and physical abilities, and conducting usability tests and other evaluations to ensure that devices perform as intended. It then focuses on applied design issues, offering guidance on the design of specific types of devices and designing devices for particular use environments. Adapted in part from established design standards and conventions, the design guidance presented in this work distills professional judgment extracted from the contributing authors' years of experience in applied analysis and design. Written in true handbook style, each chapter stands alone and includes tables, illustrations, and cross references, allowing you to quickly find the exact information you need. Most chapters begin with a general introduction to the selected topic, followed by the presentation of general and special design considerations and then specific, numbered design guidelines. The book also presents a listing of resources, literature, and website references. It not only focuses on the human factors issues that arise when developing medical devices, it supplies the necessary guidance to resolve them.

## Book Information

Hardcover: 844 pages

Publisher: CRC Press; 1 edition (December 13, 2010)

Language: English

ISBN-10: 0805856277

ISBN-13: 978-0805856279

Product Dimensions: 7 x 1.8 x 10 inches

Shipping Weight: 3.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #605,170 in Books (See Top 100 in Books) #23 in Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies #32 in Books > Medical

Books > Medicine > Reference > Instruments & Supplies #71 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Ergonomics](#)

## Customer Reviews

"...[An](#) interesting, well-written, and achieves the goal of raising the reader's awareness of important design issues. I loved the book and now that I've told my colleagues they want to read it as well, so we'll buy one for our library since I'm not giving up my copy! Although it is not intended to provide specific solutions to design problems, even a reader with experience in equipment design will most definitely gain new insights into the man-machine interface of medical devices."[An](#) Jonathan A Gaev, Biomedical Engineering Online "[An](#) the chapters go far beyond the design process guidance of AAMI's ANSI standard. It provides expanded discussions of design issues, presents product design case studies, and gives supporting illustrations. [An](#) Readers are given a particularly nice treat near the end of this voluminous handbook in the form of a set of photos and short bio sketches about the three editors and the 22 contributors."[An](#) Gerald P. Krueger, ergonomics in design, July 2013

Vanderbilt University, Nashville, Tennessee, USA Wiklund Research & Design, Inc., Concord, Massachusetts, USA Principal, Bonneau and Associates, Portage, Michigan, USA

Awesome book. Great recommendations tied to actual science. The science is provided to give a good understanding of the principles and great references for more information.

[Download to continue reading...](#)

Handbook of Human Factors in Medical Device Design How to Add a Device to Account: How to add a device to my account - 3 easy steps in few minutes Human Factors Methods for Design: Making Systems Human-Centered Medical Terminology: Medical Terminology Easy Guide for Beginners (Medical Terminology, Anatomy and Physiology, Nursing School, Medical Books, Medical School, Physiology, Physiology) Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books) Medical Device Register 1996: The Official Directory of Medical Suppliers (2 Vol Set) Psychological Factors in Emergency Medical Services for Children: Abstracts of the Psychological, Behavioral, and Medical (Bibliographies in Psychology) (No. 18) Population Patterns: What Factors Determine the Location and Growth of Human Settlements? (Investigating Human Migration & Settlement (Paperback)) Population Patterns: What Factors

Determine the Location and Growth of Human Settlements? (Investigating Human Migration & Settlement (Library)) Design Controls for the Medical Device Industry Medical Device Design: Innovation from Concept to Market Design, Execution, and Management of Medical Device Clinical Trials Medical Device Design for Six Sigma: A Road Map for Safety and Effectiveness The Medical Device Engineers Handbook The Medical Device R&D Handbook, Second Edition The Medical Device R&D Handbook The Measure of Man and Woman: Human Factors in Design Human Factors In Engineering and Design Abundance by Design: Discover Your Unique Code for Health, Wealth and Happiness with Human Design (Life by Human Design Book 1) The Patient's Medical Journal: Record Your Personal Medical History, Your Family Medical History, Your Medical Visits & Treatment Plans

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)