Human Factors and Ergonomics Design Handbook Third Edition (Mechanical Engineering)

Barry Tillman, Peggy Tillman, Rhonda Renee Rose, Wesley E. Woodson
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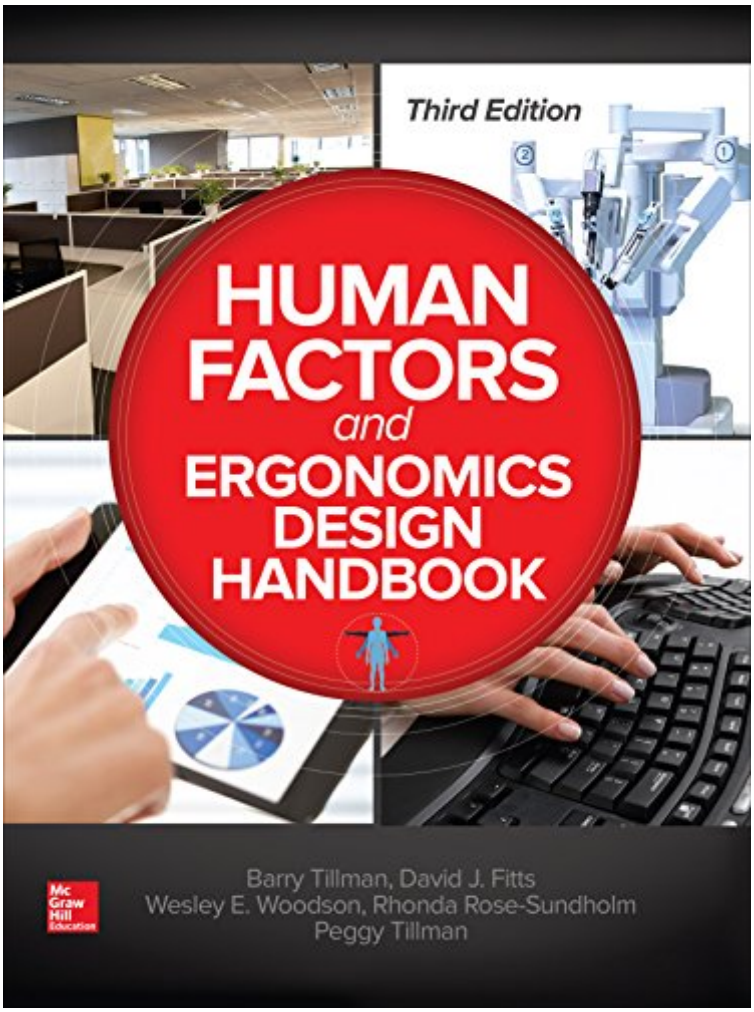

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Barry Tillman, Peggy Tillman, Rhonda Renee Rose, Wesley E. Woodson : Human Factors and Ergonomics Design Handbook Third Edition (Mechanical Engineering) before purchasing it in order to gage whether or not it would be worth my time, and all praised Human Factors and Ergonomics Design Handbook Third Edition (Mechanical Engineering):

0 of 0 people found the following review helpful. Human Factors and Ergonomics Design HandbookBy CustomerHuman Factors and Ergonomics Design Handbook Review and Recommendations submitted by William Bartlett, HFE/ID1. An excellent data source for college curriculums, and HF related professional categories.2. The bookrsquo;s content is broad, extensive, and significantly thorough within each section.3. An in-depth, detailed reference educational resourcehellip;not a ldquo;quick reference.4. The section introduction initiates context. Use a

direct outline format reduce text.5. Use a second color to improve visual enhancement on illustrations improved legibility.6. The format is not combined with ldquo;Systemrdquo; HF/design with Sub-systems work category.7. Readability is poor for text due to small, light stroke san-serif font in several areas.8. Military Section seems incomplete resulting from combined HF data for all professions.9. Insufficient text reference to clothing and equipment within physical space constraints.10. The Aerospace Section incomplete due to the other section data (per line 8 9).11. Separate the ramp/wheelchair access data that is combined with the Transportation Section.12. Lighting environments should be categorized by application to architectural vs vehicle data.13. Illustrations are helpful, and very effective, but some are too small and dated.14. Anthropometric data provides complete information to create human workplace environments..15. Female images added to physical/dimensional data inclusion would be helpful.16. SRP (Seat Ref. Point) use improves accuracy over the ldquo;Hrdquo; point for non-passenger vehicles.17. Pictograms are effective visual tools to eliminate verbiage, and improve rapid recognition.18. The Architectural section is an extensive and detailed reference particularly for education.

This fully updated handbook covers every aspect of ergonomics and human psychology for product designers Written by experts in the field, this thoroughly revised guide offers complete coverage of the latest trends and advances in ergonomics and psychology and explains their practical applications in the design of todayrsquo;s products. You will learn to maximize device functionality while minimizing human errors and injuries. Human Factors and Ergonomic Design Handbook, Third Edition, addresses the impact of current technologies on our daily lives and physical and psychological health. The ubiquitous use of handheld devices and high-tech equipment is covered in full detail. A wide range of human-friendly design methods are discussed, focusing on products in the personal computing, mobile communications, robotics, healthcare, military, and aerospace industries. bull;Provides real-world, hands-on applications across all industries bull;Features over 1000 high-quality illustrations bull;New chapters cover robotics, handheld electronic devices, medical systems, and cognitive workload

About the AuthorBarry Tillman: As a human factors engineer, Barry has worked directly with designers, engineering drawings, and software developers for nearly 50 years to achieve safer and more cost-effective human-system interfaces. Barry has been involved with a broad range of systems including coal mining equipment, military vehicles, ships, manufacturing equipment, and space habitats. He has developed human factors analytical tools and written design standards for the military, NASA, and shipping industry. He has also developed and taught numerous human factors engineering and ergonomic courses.nbsp;David J. Fitts: David worked for the National Aeronautics and Space Administration (NASA) for 27 years before retiring in 2015. In his career with NASA he was deeply engaged in the three major human spaceflight programs of his era: the Space Shuttle Program, the International Space Station (ISS) Program, and the next-generation Constellation Program for deep space exploration. During ISS and Constellation development phases, Mr. Fitts served the Agency as the Chief of the Habitability and Human Factors Branch, which focuses on ensuring human capabilities and limitations are strongly integrated into human spaceflight programsrsquo; systems engineering and management processes.nbsp;Wesley E. Woodson (deceased) was president of Man Factors Associates, a human factors consulting firm in El Cajon, CA. nbsp;Experienced in both military and domestic systems and product design in a broad range of applications, he was the author of the first edition of Human Factor Design Handbook: Human Engineering Guide for Equipment Designers (University of California Press, 1964).Rhonda Rose-Sundholm: nbsp;Rhonda has over 26 years of communications experience in the aerospace industry. nbsp;She has worked directly with scientists, engineers and physicians to organize and communicate their information to diverse audiences. She has a background in business administration, configuration management, and information systems, including website design and management.Peggy Tillman: Peggy was president of a human factors/ergonomics company for over 20 years. nbsp;She written, illustrated and designed numerous books, presentations, and reports. Ms. nbsp;Tillman has a degree in behavioral psychology and a teaching credential. nbsp;She is listed in Marquis Who's Who in the West and Whorsquo;s Who in Science and Engineering.