



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

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

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**Human Factors and Ergonomics Design Handbook, Third Edition (Mechanical Engineering)** By Barry Tillman, Peggy Tillman, Rhonda Renee Rose, Wesley E. Woodson

Master the art of user-centric planning and design

This thoroughly revised guide offers complete coverage of the latest trends and advances in ergonomics and psychology and lays out practical applications for today's designers. Written by a team of experts, *Human Factors and Ergonomics Design Handbook*, Third Edition, shows how to maximize functionality while reducing injuries and minimizing the impact on physical and psychological health. The ubiquitous use of smartphones, tablets, and other high-tech equipment is discussed in full detail. New chapters explain medical systems, robotics, handheld devices, cognitive workload, and the motion environment. <?xml:namespace prefix = "o" ns = "urn:schemas-microsoft-com:office:office" />

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- Architecture, transportation, and industrial systems
- Military, space, communications, agriculture, and consumer product systems
- Doors, windows, hatches, and equipment closures
- Parking, walkways, hallways, catwalks, and sidewalks
- Ramps, stairs, elevators, escalators, and moving walkways
- Bathrooms, restrooms, locker rooms, bedrooms, and berthing subsystems
- Kitchens, galleys, dining rooms, and food service facilities
- Offices, auditoriums, theaters, sports facilities, and special workplaces
- Lighting and sound systems, furniture, and appliances
- Visual and auditory displays, computer controls, fasteners, and tools

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## **Editorial Review**

### **About the Author**

**Barry 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.

**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 programs' systems engineering and management processes.

**Wesley E. Woodson** (deceased) was president of Man Factors Associates, a human factors consulting firm in El Cajon, CA. 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:** Rhonda has over 26 years of communications experience in the aerospace industry. 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. She written, illustrated and designed numerous books, presentations, and reports. Ms. Tillman has a degree in behavioral psychology and a teaching credential. She is listed in Marquis Who's Who in the West and Who's Who in Science and Engineering.

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