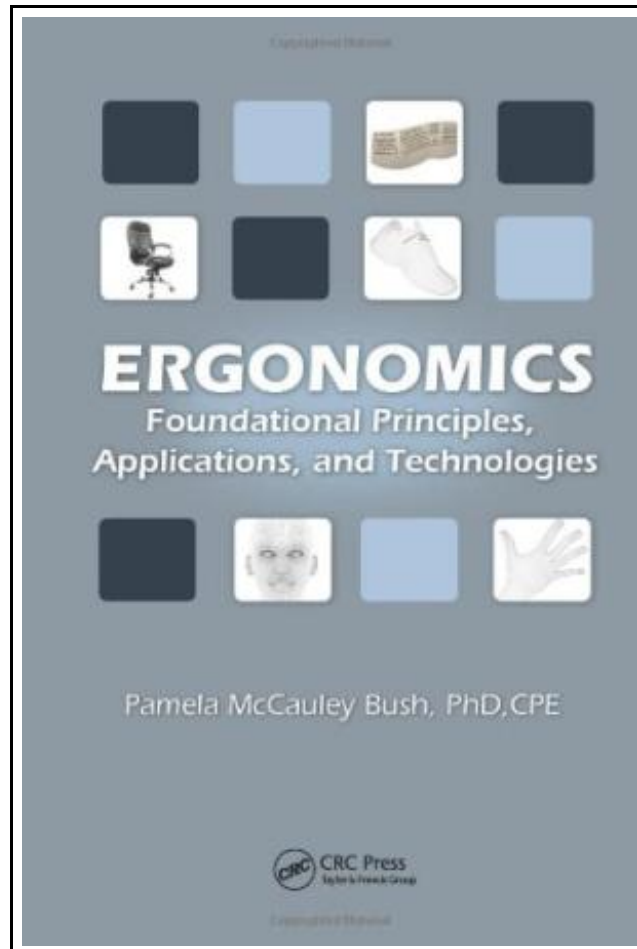


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Taylor Francis Inc, United States, 2012. Hardback. Book Condition: New. 239 x 155 mm. Language: English . Brand New Book. A complete introduction to the field, Ergonomics: Foundational Principles, Applications and Technologies discusses scientific principles, research, applications, and emerging trends in technology. Covering the foundational principles and major topics in physical ergonomics, the book contains the necessary components of a quality ergonomics course, including a sample course syllabus, PowerPoint slides for instructors and students, homework assignments, class projects, instructor s manual, suggested lab equipment, proposed lab exercises, and a student laboratory manual. Based on the author s almost two decades of teaching, the text covers basic ergonomic principles from research and application perspectives. It includes hands-on laboratory activities to complement classroom instruction and cases studies that demonstrate application of ergonomic knowledge. Using an approach that highlights the physical over the cognitive, the author focuses less on kinesiology principles and more on applied kinesiology in ergonomics. * Provides a basic explanation of the systems of the body to establish a foundation for understanding and consistently applying ergonomic principles * Covers the human senses and the sensory process for each, including tools and techniques for assessing sensory impact * Explains the functionality, relationship, and elements of the integrated roles of the muscular system and nervous system * Introduces the study of anthropometrics and the principles that can be used to support anthropometric design, including data collection, calculation of statistics, and identification of appropriate data sources * Examines the basic ergonomic principles of work place design and evaluation of hand tools * Discusses the origin, nature, and impact of work-related musculoskeletal disorders (WMSDs) in the global community * Includes coverage of the concepts of information processing, measurement of mental workload, and an introduction to ergonomic design of controls and displays The book supplies...



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