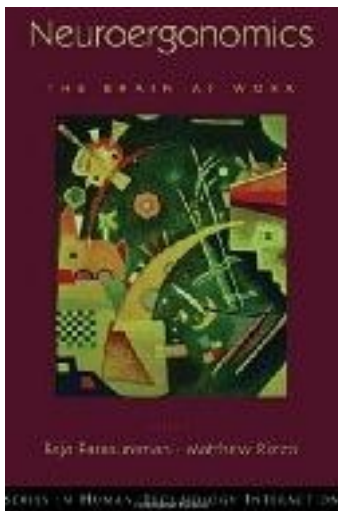# Neuroergonomics

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Neuroergonomics can be defined as the study of brain and behavior at work. It combines two disciplines - neuroscience, the study of brain function, and human factors, the study of how to match technology with the capabilities and limitations of people so they can work effectively and safely. The goal of merging these two fields is to use the startling discoveries of human brain and physiological functioning both to inform the design of technologies in the workplace and home, and to provide new training methods that enhance performance, expand capabilites, and optimize the fit between people and technology. Research in the area of neuroergonomics has blossomed in recent years with the emergence of noninvasive techniques for monitoring human brain function that can be used to study various aspects of human behavior in relation to technology and work, including mental workload, visual attention, working memory, motor control, human-automation interaction, and adaptive automation. This volume provides the first systematic overview of this emerging area, describing the theoretical background, basic research, major methods, as well as the new and future areas of application.This collection will benefit a number

of readers: the experienced researcher investigating related questions in human factors and cognitive neuroscience, the student wishing to get a rapid but systematic overview of the field, and the designer interested in novel approaches and new ideas for application.

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