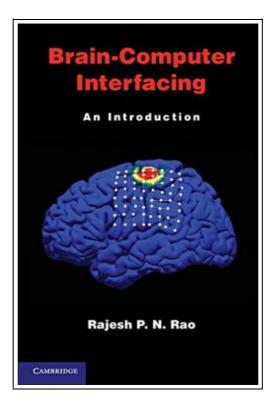
Brain-Computer Interfacing



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BRAIN-COMPUTER INTERFACING



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Cambridge University Press Sep 2013, 2013. Buch. Condition: Neu. Neuware - The idea of interfacing minds with machines has long captured the human imagination. Recent advances in neuroscience and engineering are making this a reality, opening the door to restoration and augmentation of human physical and mental capabilities. Medical applications such as cochlear implants for the deaf and neurally controlled prosthetic limbs for the paralyzed are becoming almost commonplace. Brain-computer interfaces (BCIs) are also increasingly being used in security, lie detection, alertness monitoring, telepresence, gaming, education, art, and human augmentation. This introduction to the field is designed as a textbook for upper-level undergraduate and first-year graduate courses in neural engineering or brain-computer interfacing for students from a wide range of disciplines. It can also be used for self-study, and as a reference by neuroscientists, computer scientists, engineers, and medical practitioners. Key features include: Essential background in neuroscience, brain recording and stimulation technologies, signal processing, and machine learning Detailed description of the major types of BCIs in animals and humans, including invasive, semi-invasive, non-invasive, stimulating, and bidirectional BCIs In-depth discussion of BCI applications and BCI ethics Questions and exercises in each chapter Supporting website with annotated list of book-related links 337 pp. Englisch.

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