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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. I. Injuries of the nervous system -- pt. II. Signal detection and conditioning -- pt. III. Function replacement (prostheses and orthosis) -- pt. IV. Function restoration -- pt. V. Rehabilitation through neuromodulation.
Sommario/riassunto	Neural engineering is a discipline that uses engineering techniques to understand, repair, replace, enhance, or treat diseases of neural systems. Currently, no book other than this one covers this broad range of topics within motor rehabilitation technology. With a focus on cutting edge technology, it describes state-of-the-art methods within this field, from brain-computer interfaces to spinal and cortical plasticity. Touching on electrode design, signal processing, the neurophysiology of movement, robotics, and much more, this innovative volume collects the latest information for a wide ran