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Autore	Brooker Graham
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Sensors and transducers -- Actuators -- Feedback and control systems -- Signal processing -- Hearing aids and implants -- Sensory substitution and visual prostheses -- Heart replacement -- Respiratory aids -- Active and passive prosthetic limbs.
Sommario/riassunto	Introduction to Biomechatronics provides fundamental knowledge of mechanical and electronic (mechatronic) components and systems and their interaction with human biology to assist or replace limbs, senses, and even organs damaged by trauma, birth defects, or disease. The first half of the book provides the engineering background to understand all the components of a biomechatronic system: the human subject, stimulus or actuation, transducers and sensors, signal conditioning elements, recording and display, and feedback elements.