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Soggetti	Mechatronics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The bare essentials -- Gaining experience -- Introduction to the next level -- Electronic design -- Essential control theory -- Vectors, matrices and tensors -- Mathematics for control -- Robotics, Dynamics and Kinematics -- Further control theory -- Computer implementation -- Machine vision -- Case studies -- The human element.
Sommario/riassunto	Learn how to study, analyze, select, and design a successful mechatronic productThis innovative, cutting-edge publication presents the essential nature of mechatronics, a field at the crossroads of information technology and mechanical and electrical engineering. Readers learn how to blend mechanisms, electronics, sensors, control strategies, and software into a functional design. Given the breadth that the field of mechatronics draws upon, this publication provides a critical service to readers by paring down the topics to the most essential ones.A common thread throughout the