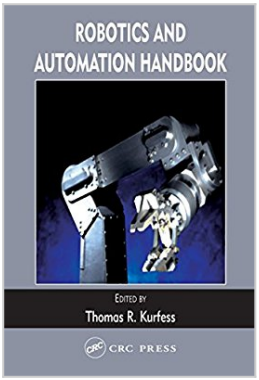


# Robotics and Automation Handbook

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The Robotics and Automation Handbook addresses the major aspects of designing, fabricating, and enabling robotic systems and their various applications. It presents kinetic and dynamic methods for analyzing robotic systems, considering factors such as force and torque. From these analyses, the book develops several controls approaches, including servo actuation, hybrid control, and trajectory planning. Design aspects include determining specifications for a robot, determining its configuration, and utilizing sensors and actuators. The featured applications focus on how the specific difficulties are overcome in the development of the robotic system.

With the ability to increase human safety and precision in applications ranging from handling hazardous materials and exploring extreme environments to manufacturing and medicine, the uses for robots are growing steadily. The Robotics and Automation Handbook provides a solid foundation for engineers and scientists interested in designing, fabricating, or utilizing robotic systems.

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Review
"This is a wonderful reference for designing, modeling, controlling, and interfacing roboticswell presentedprovides a great foundation relating manipulator tasks, design, and controlModern techniques of force and impedance (hybrid) control, sliding mode control, and input shaping for vibration are shown with clear examples." - International Journal of Engineering Education

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