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parametrize the robot's configuration space. Often the coordinates of choice are the joint variables, and the configuration space can be parametrized either explicitly or implicitly in terms of these joint variables. Also, to grasp and manipulate objects, a robot is typically equipped with an end-effector, e.g., a mechanical hand or gripper.

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For senior-year undergraduate and first-year graduate courses in robotics. An intuitive introduction to robotic theory and application Since its original publication in 1986, Craig's Introduction to Robotics: Mechanics and Control has been the leading textbook for teaching robotics at the university level.

Craig, Introduction to Robotics: Mechanics and Control

dynamics, and control of robot manipulators. The current book is an attempt to provide this formulation not

just for a single robot but also for multi-fingered robot hands, involving multiple cooperating robots. It grew from our efforts to teach a course to a hybrid audience of electrical

A Mathematical Introduction to Robotic Manipulation

Introduction to Robotics: mechanics and control 2nd edition, by John J. Craig (available in college library CNT 254/4) . Fundamentals of robotics by Ming xie (Copies will be given).

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