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ME/RBE 501 Robot Dynamics - WPI AIM Lab

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## A Mathematical Introduction to Robotic Manipulation

A Mathematical Introduction to Robotic Manipulation presents a mathematical formulation of the kinematics, dynamics, and control of robot manipulators. It uses an elegant set of mathematical tools that emphasizes the geometry of robot motion and allows a large class of robotic manipulation problems to be analyzed within a unified framework.

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Chapter 1. Introduction. In the last twenty years, our conception and use of robots has evolved from the stuff of science fiction films to the reality of computer-controlled electromechanical devices integrated into a wide variety of industrial environments.

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A Mathematical Introduction to Robotic Manipulation Richard M. Murray California Institute of Technology Zexiang Li Hong Kong University of Science and Technology S. Shankar Sastry University of California, Berkeley

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