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H. HARRY ASADA - Mechanical Engineering

bioengineering, and dynamic systems and control Professor Asada's research programs have focused on the design, system dynamics, and control of robotic, biomedical, and biological systems He invented Direct -Drive Robots in 1981, which have been used worldwide for cleanroom automation and assembly His -

MECH 563 Robotics

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JEAN-JACQUES SLOTINE

Professor Slotine is the co-author of two popular graduate textbooks, "Robot Analysis and Control" (Asada and Slotine, Wiley, 1986), and "Applied Nonlinear Control" (Slotine and Li, Prentice-Hall, 1991) and is one of the most cited researcher in both systems science and robotics He was a member of the French

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A Mathematical Introduction to Robotic Manipulation

kinematics, dynamics, control, sensing, and planning for robot manipulators Given the state of maturity of the subject and the vast diversity of students who study this material, we felt the need for a book which presents a slightly more abstract (mathematical) formulation of the kinematics, dynamics, and control of robot manipulators

Introduction to Robotics

control is important when the manipulator comes into contact with the environment around it, such as during the washing of a window with a sponge

Chapter 12 overviews methods of programming robots, specifically the elements needed in a robot programming system, and the particular problems associated with programming industrial robots