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H. HARRY ASADA - Mechanical Engineering

asada@mit.edu Professor H Harry Asada is Ford Professor of Engineering Director of the Brit and and critical contributions to robot control and skill teaching through seminal works on acquisition, contact state network, and compliance synthesis and Asada, H, "Analysis of Prehension Characteristics of Robot Hand Control Systems

JEAN-JACQUES SLOTINE - Mechanical Engineering

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 ...

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Robot Dynamics and Control - Politecnico di Milano

1976 — Robot arms are used on the Viking I and II space probes and land on Mars 1978 — Unimation introduces the PUMA robot, based on designs from a General Motors study 1979 — the SCARA robot design is introduced in Japan 1981 — the first direct-drive robot is ...

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A Mathematical Introduction to Robotic Manipulation

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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

A Perturbation/Correlation Approach to Force-Guided ...

[Hanafusa, Asada, 1977], [Whitney, 1977], [Peshikin, 1992] Reference Force Profile Figure 1-1 Force guided control The force feedback law may be a simple compliance control law, an admittance control law, or a complex nonlinear control law described by a functional relationship between

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Welcome to 2.12 Introduction to Robotics

Asada, H, and Slotine, J-J, “Robot Analysis and Control”, Wiley 1986, ISBN 0-471-83029-1 Newly written lecture notes will be provided at each lecture These lecture notes are a preliminary version of the second edition of the above reference book, “Robot Analysis and Control...”

Static Force Analysis: Another Role for the Jacobian

Static Force Analysis: Another Role for the Jacobian Portions abstracted from H Asada and J-J E Slotine, “Robot Analysis and Control,”Wiley, 1986

240AR012 - Robotics , Kinematics, Dynamics and Control

240AR012 - Robotics , Kinematics, Dynamics and Control 2 / 5 Universitat Politècnica de Catalunya Robotics holds the study of those machines that can replace human beings in the execution of tasks, as regards both physical activity and decision making In all robot applications, the realization of a task requires the execution of a specific

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212/2120 Introduction to Robotics - Fall 2016 Syllabus Course Catalog Presents the fundamentals of robot mechanisms, dynamics, and controls Planar and spatial kinematics, differential motion, energy method for robot mechanics; mechanism design for Asada, H, and Slotine, J-J, "Robot Analysis and Control", Wiley 1986, ISBN 0-471