



actuators

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Dynamics and Control of Robot Manipulators

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Adaptive Control Of Robot Manipulators Adaptive Control Of Robot Manipulators

AW Chickering



Adaptive Control Of Robot Manipulators Adaptive Control Of Robot Manipulators:

Adaptive Control of Robot Manipulators An-Chyau Huang, Ming-Chih Chien, 2010 This book introduces an unified function approximation approach to the control of uncertain robot manipulators containing general uncertainties It works for free space tracking control as well as compliant motion control It is applicable to the rigid robot and the flexible joint robot Even with actuator dynamics the unified approach is still feasible All these features make the book stand out from other existing publications

Adaptive Control for Robotic Manipulators Dan Zhang, Bin Wei, 2017-02-03 The robotic mechanism and its controller make a complete system As the robotic mechanism is reconfigured the control system has to be adapted accordingly The need for the reconfiguration usually arises from the changing functional requirements This book will focus on the adaptive control of robotic manipulators to address the changed conditions The aim of the book is to summarise and introduce the state of the art technologies in the field of adaptive control of robotic manipulators in order to improve the methodologies on the adaptive control of robotic manipulators Advances made in the past decades are described in the book including adaptive control theories and design and application of adaptive control to robotic manipulators

Adaptive Control of Mechanical Manipulators John J. Craig, 1988

Switching Adaptive Control of Robot Manipulators Mansour Kabganian, 1994

Adaptive Neural Network Control Of Robotic Manipulators Sam Shuzhi Ge, Christopher J Harris, Tong Heng Lee, 1998-12-04 Recently there has been considerable research interest in neural network control of robots and satisfactory results have been obtained in solving some of the special issues associated with the problems of robot control in an on and off fashion This book is dedicated to issues on adaptive control of robots based on neural networks The text has been carefully tailored to i give a comprehensive study of robot dynamics ii present structured network models for robots and iii provide systematic approaches for neural network based adaptive controller design for rigid robots flexible joint robots and robots in constraint motion Rigorous proof of the stability properties of adaptive neural network controllers is provided Simulation examples are also presented to verify the effectiveness of the controllers and practical implementation issues associated with the controllers are also discussed

Adaptive Control of Robot Manipulators Nabil A. Rahim, 1987

Adaptive Control of Robot Manipulators Yifei Chen, Technical University of Denmark. Control Engineering Institute, DTH, IFS, 1990

Robust Adaptive Control for Robot Manipulators Gregory J. McDermott, 1994

Nonlinear Adaptive Control of Robot Manipulators Richard A. Spada, 1985

Decentralized Adaptive Control of Robot Manipulators Byung Joo Oh, 1988

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