

1. Record Nr.	UNINA9910780881303321
Autore	Huang An-Chyau
Titolo	Adaptive control of robot manipulators [[electronic resource] ] : a unified regressor-free approach // An-Chyau Huang, Ming-Chih Chien
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific Pub., c2010
ISBN	1-282-76380-6 9786612763809 981-4307-42-4
Descrizione fisica	1 online resource (276 p.)
Altri autori (Persone)	ChienMing-Chih
Disciplina	629.892
Soggetti	Robots - Control systems - Design and construction Robots - Motion - Mathematical models Robots, Industrial - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographic references (p. 247-255) and index.
Nota di contenuto	Preface; Contents; 1 Introduction; 2 Preliminaries; 3 Dynamic Equations for Robot Manipulators; 4 Adaptive Control of Rigid Robots; 5 Adaptive Impedance Control of Rigid Robots; 6 Adaptive Control of Flexible Joint Robots; 7 Adaptive Impedance Control of Flexible Joint Robots; Appendix; References; Symbols, Definitions and Abbreviations; Index
Sommario/riassunto	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.