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	Titolo	Design of nonlinear control systems with the highest derivative in feedback [[electronic resource] /] / Valery D. Yurkevich
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	Descrizione fisica	1 online resource (374 p.)
	Collana	Series on stability, vibration, and control of systems. Design of nonlinear control systems with the highest derivative in feedback Series on stability, vibration, and control of systems. Series A ; ; v. 16
	Disciplina	629.8
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	Soggetti	Nonlinear control theory
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	Lingua di pubblicazione	Inglese
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	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Preface; Contents; Chapter 1 Regularly and singularly perturbed systems; Chapter 2 Design goal and reference model; Chapter 3 Methods of control system design under uncertainty; Chapter 4 Design of SISO continuous-time control systems; Chapter 5 Advanced design of SISO continuous-time control systems; Chapter 6 Influence of unmodeled dynamics; Chapter 7 Realizability of desired output behavior; Chapter 8 Design of MIMO continuous-time control systems; Chapter 9 Stabilization of internal dynamics; Chapter 10 Digital controller design based on pseudo-continuous approach Chapter 11 Design of discrete-time control systemsChapter 12 Design of sampled-data control systems; Chapter 13 Control of distributed parameter systems; Appendix A Proofs; Appendix B Notation system; Bibliography; Index
	Sommario/riassunto	This unique book presents an analytical uniform design methodology ofcontinuous-time or discrete-time nonlinear control system design whichguarantees desired transient performances in the presence of plantparameter variations and unknown external disturbances.