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Altri autori (Persone)	LeonovG. A (Gennadii Alekseevich) BlekhmanI. I (Ilia Izrailevich)
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface; Biography: Ilya Izrailevich Blekhman; Contents; 1. Huijgens' Synchronization: A Challenge H. Nijmeijer, A.Y. Pogromsky; 2. Lyapunov Quantities and Limit Cycles of Two-dimensional Dynamical Systems N.V. Kuznetsov, G.A. Leonov; 3. Absolute Observation Stability for Evolutionary Variational Inequalities G.A. Leonov, V. Reitman; 4. A Discrete-time Hybrid Lurie Type System V.N. Belykh, B. Ukrainsky; 5. Frequency Domain Performance Analysis of Marginally Stable LTI Systems with Saturation R.A. van den Berg, A.Y. Pogromsky, J.E. Rooda 6. Reduction of Steady-State Vibrations in a Piecewise Linear Beam System using Proportional and Derivative Control R.H.B. Fey, R.M.T. Wouters, H. Nijmeijer7. Hybrid Quantised Observer for Multi-input-multi- output Nonlinear Systems A.L. Fradkov, B.R. Andrievskiy, R.J. Evans; 8. Tracking Control of Multiconstraint Nonsmooth Lagrangian

Systems C. Morarescu, B. Brogliato, T. Nguyen; 9. Stability and Control of Lur'e-type Measure Di®erential Inclusions N. van de Wouw, R. I. Leine 10. Synchronization between Coupled Oscillators: An Experimental Approach D.J. Rijlaarsdam, A.Y. Pogromsky, H. Nijmeijer11. Swinging Control of Two-pendulum System under Energy Constraints M. S. Ananyevskiy, A.L. Fradkov, H. Nijmeijer; 12. Two Van der Pol-Duffing Oscillators with Huygens Coupling V.N. Belykh, E.V. Pankratova, A.Y. Pogromsky; 13. Synchronization of Diffusively Coupled Electronic Hindmarsh-Rose Oscillators E. Steur, L. Kodde, H. Nijmeijer; 14. Multipendulum Mechatronic Setup for Studying Control and Synchronization A.L. Fradkov, B.R. Andrievskiy, K.B. Boykov, B.P. Lavrov 15. High-frequency Effects in 1D Spring-mass Systems with Strongly Non-linear Inclusions B.S. Lazarov, S.O. Snaeland, J.J. Thomsen

Sommario/riassunto

The papers in this edited volume aim to provide a better understanding of the dynamics and control of a large class of hybrid dynamical systems that are described by different models in different state space domains. They not only cover important aspects and tools for hybrid systems analysis and control, but also a number of experimental realizations. Special attention is given to synchronization - a universal phenomenon in nonlinear science that gained tremendous significance since its discovery by Huygens in the 17th century. Possible applications of the results introduced in the book includ

2.

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