Record Nr. UNINA9910820845603321 Control of chaos in nonlinear circuits and systems [[electronic resource] Titolo /] / edited by Bingo Wing-Kuen Ling, Herbert Ho-Ching Iu, Hak-Keung Lam Singapore; ; Hackensack, NJ, : World Scientific, c2009 Pubbl/distr/stampa **ISBN** 1-282-44101-9 9786612441011 981-279-057-8 Descrizione fisica 1 online resource (281 p.) Collana World Scientific series on nonlinear science. Series A, Monographs and treatises, , 1793-1010;; v. 64 Altri autori (Persone) **luHerbert Ho-Ching** LamHak-Keung LingWing-Kuen 003.75 Disciplina 621.3815 Soggetti Chaotic behavior in systems Nonlinear control theory Nonlinear systems Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references. Nota di bibliografia Nota di contenuto Preface; CONTENTS; Section A: General Chaos Control Methods; 1. Robust Synchronization of Chaotic Systems based on Time-delayed Feedback Control H. Huang and G. Feng; 2. Synchronization of Uncertain Chaotic Systems based on Fuzzy-model-based Approach H. K. Lam and F.H.F. Leung; 3. Sliding Mode Control of Chaotic Systems Y. Feng and X. Yu; 4. A New Two-stage Method for Nonparametric Regression with Jump Points C.Z. Wu, C.M. Liu, K.L. Teo and Q.X. Shao; Section B: Chaos Control for Continuous-time Systems 5. Chaos Control for Chua's Circuits L.A.B. Torres, L.A. Aguirre, R.M. Palhares and E.M.A.M. Mendes6. Chaos Control for a PWM H-bridge Inverter B. Robert, M. Feki and H.H.C. lu; 7. Chaos Control of Epileptiform Bursting in the Brain M.W. Slutzky, P. Cvitanovic and D.J. Mogul; Section C: Chaos Control for Discrete-time Systems; 8. Chaos

Control for Phase Lock Loop A.M. Harb and B.A. Harb; 9. Control of

Sigma Delta Modulators via Fuzzy Impulsive Approach B.W.K. Ling, C.Y. F. Ho and J.D. Reiss

Sommario/riassunto

In this book, leading researchers present their current work in the challenging area of chaos control in nonlinear circuits and systems, with emphasis on practical methodologies, system design techniques and applications. A combination of overview, tutorial and technical articles, the book describes state-of-the-art research on significant problems in this area. The scope and aim of this book are to bridge the gap between chaos control methods and circuits and systems. It is an ideal starting point for anyone who needs a fundamental understanding of controlling chaos in nonlinear circuits and