Record Nr. UNINA9910456938803321 Autore Fortuna L (Luigi), <1953-> **Titolo** Chua's circuit implementations [[electronic resource]]: yesterday, today and tomorrow / / Luigi Fortuna, Mattia Frasca, Maria Gabriella Xibilia New Jersey, : World Scientific, c2009 Pubbl/distr/stampa **ISBN** 1-282-44271-6 9786612442711 981-283-925-9 Descrizione fisica 1 online resource (222 p.) Collana World Scientific series on nonlinear science. Series A, Monographs and treatises, , 1793-1010;; v. 65 FrascaMattia Altri autori (Persone) XibiliaMaria Gabriella Disciplina 621.3815 Soggetti Electronic circuits Chaotic behavior in systems Electric circuits, Nonlinear Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa 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: 1. The birth of the Chua's circuit; 2. Implementation of the Chua's diode; 3. Cellular Nonlinear Networks and Chua's circuit; 4. Frequency switched Chua's circuit: experimental dynamics characterization; 5. Photo-controlled Chua's circuit; 6. Programmable Chua's circuit; 7. Switched capacitor-based Chua's circuit; 8. The fourelement Chua's circuit; 9. The organic Chua's circuit; 10. Applications of the Chua's circuit; 11. Conclusions; Critical bibliography; Bibliography; Index of the implementations; Index Sommario/riassunto Since the birth of the Chua circuit in 1983, a considerable number of fruitful, fascinating and relevant research topics have arisen. In honor of the 25th anniversary of the invention of Chua's circuit, this book presents the 25 years of research on the implementation of Chua's circuit, and also discusses future directions and emerging applications of recent results. The purpose of the book is to provide researchers, PhD students, and undergraduate students a research monograph

containing both fundamentals on the topics and advanced results that