

1. Record Nr.	UNINA9910299716503321
Autore	Buscarino Arturo
Titolo	A Concise Guide to Chaotic Electronic Circuits / / by Arturo Buscarino, Luigi Fortuna, Mattia Frasca, Gregorio Sciuto
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-05900-9
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (105 p.)
Collana	SpringerBriefs in Applied Sciences and Technology, , 2191-530X
Disciplina	621.3815
Soggetti	Electronic circuits Statistical physics System theory Optical materials Electronics - Materials Circuits and Systems Applications of Nonlinear Dynamics and Chaos Theory Complex Systems Optical and Electronic Materials
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	Four examples of chaotic circuits -- From the mathematical model to the circuit -- A gallery of chaotic circuits -- FPAA-based implementation of chaotic circuits -- Synchronization of chaotic circuits.
Sommario/riassunto	This brief provides a source of instruction from which students can be taught about the practicalities of designing and using chaotic circuits. The text provides information on suitable materials, circuit design and schemes for design realization. Readers are then shown how to reproduce experiments on chaos and to design new ones. The text guides the reader easily from the basic idea of chaos to the laboratory test providing an experimental basis that can be developed for such applications as secure communications. This brief provides introductory information on sample chaotic circuits, includes coverage of their development, and the "gallery" section provides information on

a wide range of circuits. Concise Guide to Chaotic Electronic Circuits will be useful to anyone running a laboratory class involving chaotic circuits and to students wishing to learn about them.
