1. Record Nr. UNINA9910743264403321

Autore	Zhang Bo <1962 October 23->
Titolo	Fractional-Order Electrical Circuit Theory / / by Bo Zhang, Xujian Shu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-16-2821-1 981-16-2822-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (XV, 299 p. 165 illus., 10 illus. in color.)
Collana	CPSS Power Electronics Series, , 2520-8861
Disciplina	621.3192
Soggetti	Electric power production Electronic circuits Electric power distribution Electronics Electrical Power Engineering Electronic Circuits and Systems Energy Grids and Networks Electronics and Microelectronics, Instrumentation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Overview of Fractional Calculus Theory -- Fractional-order Electrical Circuits and Their Fundamental Laws -- Network Theorems of Fractional-order Electrical Circuits -- Time-domain Analysis of Fractional-order Dynamic Electrical Circuits -- Sinusoidal Steady-state Analysis of Fractional-order Electrical Circuits -- Fractional-order Three-phase Sinusoidal Electrical Circuits -- Analysis of Periodic Non-sinusoidal Steady-state Fractional-order Electrical Circuits -- Fractional-order Two-port Network -- Complex Frequency Domain Analysis of Fractional-order Electrical Circuits -- State Variable Analysis Method of Fractional-order Electrical Circuits -- Fractional-order Generalized Linear Electrical Circuits and Their Properties.
Sommario/riassunto	This book presents a concise and insightful view of the knowledge on fractional-order electrical circuits, which belongs to the subject of Electric Engineering and involves mathematics of fractional calculus. It offers an overview of fractional calculus and then describes and

	analyzes the basic theories and properties of fractional-order elements and fractional-order electrical circuit composed of fractional-order elements. Therein, the fundamental theorems, time-domain analysis, steady-state analysis, complex frequency domain analysis and state variable analysis of fractional-order electrical circuit are included. The fractional-order two-port networks and generalized fractional-order linear electrical circuits are also mentioned. Therefore, this book provides readers with enough background and understanding to go deeper into the topic of fractional-order electrical circuit, so that it is useful as a textbook for courses related to fractional-order elements, fractional-order electrical circuits, etc. This book is intended for students without an extensive mathematical background and is suitable for advanced undergraduate and graduate students, engineers and researchers who focus on the fractional-order elements, electrical circuits and systems. .

2. Record Nr. UNINA9910483827503321

Titolo	Advances in Swarm Intelligence : First International Conference, ICSI 2010, Beijing, China, June 12-15, 2010, Proceedings, Part II / / edited by KAY CHEN TAN
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	1-280-38699-1 9786613564917 3-642-13498-X
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (772 p. 262 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 6146
Altri autori (Persone)	TanYing ShiYuhui TanK. C
Disciplina	006.3
Soggetti	Artificial intelligence Computer programming Algorithms Application software Computer science Computer networks Artificial Intelligence Programming Techniques Computer and Information Systems Applications Theory of Computation

	Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Fuzzy Methods -- Applications of Computational Intelligence Algorithms -- Signal Processing and Information Security -- Information Processing System -- Intelligent Control -- Classifier Systems -- Machine Learning Methods -- Other Optimization Algorithms -- Data Mining Methods -- Intelligent Computing Methods and Applications -- Data Mining Algorithms and Applications -- Other Applications.
Sommario/riassunto	This book and its companion volume, LNCS vols. 6145 and 6146, constitute the proceedings of the International Conference on Swarm Intelligence (ICSI 2010) held in Beijing, the capital of China, during June 12-15, 2010. ICSI 2010 was the ?rst gathering in the world for researchers working on all aspects of swarm intelligence, and providedan academic forum for the participants to disseminate theirnewresearch?ndingsanddiscussemergingareasofresearch. Italsocreated a stimulating environment for the participants to interact and exchange inf- mation on future challenges and opportunities of swarm intelligence research. ICSI 2010 received 394 submissions from about 1241 authors in 22 countries and regions (Australia, Belgium, Brazil, Canada, China, Cyprus, Hong Kong, Hungary, India, Islamic Republic of Iran, Japan, Jordan, Republic of Korea, Malaysia, Mexico, Norway, Pakistan, South Africa, Chinese Taiwan, UK, USA, Vietnam) across six continents (Asia, Europe, North America, South America, Africa, and Oceania). Each submission was reviewed by at least three reviewers. Based on rigorous reviews by the Program Committee members and reviewers, 185 high-quality papers were selected for publication in the proceedings with the acceptance rate of 46.9%. The papers are organized in 25 cohesive sections covering all major topics of swarm intelligence research and development.