

1. Record Nr.	UNINA990006473170403321
Autore	Cook, David
Titolo	African Literature : a critical view / David Cook
Pubbl/distr/stampa	London : Longman, 1977
Descrizione fisica	XIV, 240 p. ; 22 cm
Disciplina	896
Locazione	FSPBC
Collocazione	XIV E 1256
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910299978203321
Autore	Lynch Stephen
Titolo	Dynamical Systems with Applications using MATLAB® // by Stephen Lynch
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2014
ISBN	3-319-06820-2
Edizione	[2nd ed. 2014.]
Descrizione fisica	1 online resource (XV, 514 p. 213 illus., 56 illus. in color.) : online resource
Disciplina	620.00151
Soggetti	Dynamics System theory Differential equations Engineering mathematics Engineering - Data processing Mathematics Mathematical physics Dynamical Systems Complex Systems Differential Equations Mathematical and Computational Engineering Applications Applications of Mathematics Theoretical, Mathematical and Computational Physics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	<p>Preface -- A Tutorial Introduction to MATLAB® -- Linear Discrete Dynamical Systems -- Nonlinear Discrete Dynamical Systems -- Complex Iterative Maps -- Electromagnetic Waves and Optical Resonators -- Fractals and Multifractals -- The Image Processing Toolbox -- Differential Equations -- Planar Systems -- Interacting Species -- Limit Cycles -- Hamiltonian Systems, Lyapunov Functions, and Stability -- Bifurcation Theory -- Three-Dimensional Autonomous Systems and Chaos -- Poincaré Maps and Nonautonomous Systems in the Plane -- Local and Global Bifurcations -- The Second Part of Hilbert's Sixteenth Problem -- Neural Networks -- Chaos Control and Synchronization -- Binary Oscillator Computing -- SIMULINK® -- Examination-Type Questions -- Solutions to Exercises -- Index.</p>
Sommario/riassunto	<p>This textbook, now in its second edition, provides a broad introduction to both continuous and discrete dynamical systems, the theory of which is motivated by examples from a wide range of disciplines. It emphasizes applications and simulation utilizing MATLAB®, Simulink®, the Image Processing Toolbox™, and the Symbolic Math Toolbox™, including MuPAD. Features new to the second edition include · sections on series solutions of ordinary differential equations, perturbation methods, normal forms, Gröbner bases, and chaos synchronization; · chapters on image processing and binary oscillator computing; · hundreds of new illustrations, examples, and exercises with solutions; and · over eighty up-to-date MATLAB® program files and Simulink model files available online. These files were voted MATLAB® Central Pick of the Week in July 2013. The hands-on approach of Dynamical Systems with Applications using MATLAB®, Second Edition, has minimal prerequisites, only requiring familiarity with ordinary differential equations. It will appeal to advanced undergraduate and graduate students, applied mathematicians, engineers, and researchers in a broad range of disciplines such as population dynamics, biology, chemistry, computing, economics, nonlinear optics, neural networks, and physics. Praise for the first edition · Summing up, it can be said that this text allows the reader to have an easy and quick start to the huge field of dynamical systems theory. MATLAB/SIMULINK facilitate this approach under the aspect of learning by doing. —OR News/Operations Research Spectrum The MATLAB programs are kept as simple as possible and the author's experience has shown that this method of teaching using MATLAB works well with computer laboratory classes of small sizes.... I recommend 'Dynamical Systems with Applications using MATLAB' as a good handbook for a diverse readership: graduates and professionals in mathematics, physics, science and engineering. —Mathematica.</p>