1. Record Nr. UNISALENTO991002945349707536

Titolo	Evolutionary equations with applications in natural sciences / edited by Jacek Banasiak, Mustapha Mokhtar-Kharroubi
Pubbl/distr/stampa	Cham [Switzerland] : Springer International Publishing : Imprint : Springer, c2015
ISBN	9783319113210
Descrizione fisica	xi, 493 p. : 58 ill., 37 ill. in color. ; 24 cm
Collana	Lecture notes in mathematics, 0075-8434; 2126
Classificazione	AMS 92-06 AMS 35K57 AMS 47D03 AMS 82C70 LC QA370-380
Altri autori (Persone)	Banasiak, Jacek Mokhtar-Kharroubi, Mustapha
Disciplina	515.353
Soggetti	Differentiable dynamical systems Operator theory Differential equations, Partial
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Wilson Lamb: Applying functional analytic techniques to evolution equations -- Adam Bobrowski: Boundary conditions in evolutionary equations in biology.-Ernesto Estrada: Introduction to Complex Networks: Structure and Dynamics.-Jacek Banasiak: Kinetic models in natural sciences -- Philippe Laurençot: Weak compactness techniques and coagulation equations -- Ryszard Rudnicki: Stochastic operators and semigroups and their applications in physics and biology -- Mustapha Mokhtar-Kharroubi: Spectral theory for neutron transport.-Anna Marciniak-Czochra: Reaction-diffusion-ODE models of pattern formation -- Mapundi Kondwani Banda: Nonlinear Hyperbolic Systems of Conservation Laws and Related Applications
Sommario/riassunto	With the unifying theme of abstract evolutionary equations, both linear and nonlinear, in a complex environment, the book presents a multidisciplinary blend of topics, spanning the fields of theoretical and applied functional analysis, partial differential equations, probability

theory and numerical analysis applied to various models coming from theoretical physics, biology, engineering and complexity theory.
The unique features of the book are: the first simultaneous presentation of two complementary approaches to fragmentation and coagulation problems, by weak compactness methods and by using semigroup techniques, comprehensive exposition of probabilistic methods of analysis of long term dynamics of dynamical systems, semigroup analysis of biological problems and cutting edge pattern formation theory. The book will appeal to postgraduate students and researchers specializing in applications of mathematics to problems arising in natural sciences and engineering

2. Record Nr. UNISALENTO991002851319707536

Autore	Ferguson, William Scott
Titolo	The treasurers of Athena / by William Scott Ferguson
Pubbl/distr/stampa	Cambridge (Mass.) : Harvard university press, 1932
Descrizione fisica	IX, 198 p. : ill. ; 25 cm
Disciplina	336.0938
Soggetti	Atene Finanza pubblica Antichità
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

3. Record Nr. UNINA9911011650003321

Autore	Phillips Jonathan D
Titolo	Abiotic Selection in Earth Surface Systems / / by Jonathan D. Phillips
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-85862-X
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (354 pages)
Collana	Geophysics and Environmental Physics, , 2948-2194
Disciplina	550 910.02
Soggetti	Physical geography Geophysics Stochastic models Statistics Ecology Geology Earth System Sciences Stochastic Modelling in Statistics Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences Theoretical and Statistical Ecology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction Abiotic Selection in Earth Surface Systems ESS -- Key Principles Review and Overview -- Forms of selection in geophysics -- Gradient selection -- Resistance selection -- Thermodynamic selection -- Geophysical selection & landscape evolution -- Goals & emergence -- An integrated approach to geophysics in Earth Surface Systems -- Implications & applications of geophysical selection.
Sommario/riassunto	This book is about abiotic selection in Earth surface systems. It demonstrates that seemingly purposeful or goal-oriented phenomena in Earth's processes actually emerge from selection dynamics. While many think of selection in the context of biological evolution, it extends to abiotic processes crucial in understanding Earth's function and evolution. The author delineates four forms of geophysical

selection: gradient, resistance, network, and thermodynamic. These selections manifest in various natural systems, from fluid flows shaping landscapes to the efficient transport of mass and energy. The book acknowledges the interplay of geophysical and ecological processes, employing them as pedagogical tools. Structured with an introduction to abiotic selection and its context, the book delves into the application of key principles—such as thermodynamics and flow dynamics—to Earth surface systems. Each subsequent chapter examines one of the four types of selection, featuring diverse real-world examples from climate dynamics to oceanography. Geared toward researchers, graduate students, and practitioners in fields such as geophysics, geology, geography, hydrology, and ecosystem sciences, it also appeals to those interested in evolutionary thinking beyond traditional life sciences.