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Descrizione fisica	1 online resource (x, 110 pages) : digital, PDF file(s)
Collana	AIMS library series
Disciplina	511/.8
Soggetti	Mathematical models
Lingua di pubblicazione	Inglese
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Note generali	Title from publisher's bibliographic system (viewed on 01 Feb 2016).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Mathematical toolbox -- Basic difference equations models and their analysis -- Basic differential equations models -- Qualitative theory for a single equation -- From discrete to continuous models and back.
Sommario/riassunto	Mathematical Modelling in One Dimension demonstrates the universality of mathematical techniques through a wide variety of applications. Learn how the same mathematical idea governs loan repayments, drug accumulation in tissues or growth of a population, or how the same argument can be used to find the trajectory of a dog pursuing a hare, the trajectory of a self-guided missile or the shape of a satellite dish. The author places equal importance on difference and differential equations, showing how they complement and intertwine in describing natural phenomena.