1.	Record Nr.	UNINA9910483503803321
	Titolo	Mathematical Modelling in Health, Social and Applied Sciences / / edited by Hemen Dutta
	Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
	ISBN	981-15-2286-3
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (XI, 320 p. 78 illus., 68 illus. in color.)
	Collana	Forum for Interdisciplinary Mathematics, , 2364-6748
	Disciplina	511.8
	Soggetti	Mathematical models Computer mathematics Operations research Management science Statistics Technology Mathematical Modeling and Industrial Mathematics Computational Science and Engineering Operations Research, Management Science Statistical Theory and Methods Applied Science, multidisciplinary
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Khalid Hattaf: Viral Immunology: Modeling and Analysis Divine Wanduku, C. Newman O. Jegede, and Broderick Oluyede: Modeling the Stochastic Dynamics of Influenza Epidemics with Vaccination Control, and the Maximum Likelihood Estimation of Model Parameters W.P.T. M. Wickramaarachchi and S.S. Nishantha Perera: A Two-Dimensional Dynamical System for Local Transmission of Dengue with Time Invariant Mosquito Density A.O. Egonmwan and Daniel Okuonghae: Mathematical Analysis of a Tuberculosis Model with Imperfect Vaccine A. Omame, Daniel Okuonghae, and Simeon Chioma Inyama: A Mathematical Study of a Model for HPV with Two High Risk Strains Ozlem Ozturk Mizrak, Cihan Mizrak, Ardak Kashkynbayev and Yang Kuang: Can Fractional Differentiation Improve Data Fitting Ability of a

	Prostate Cancer Model under Intermittent Androgen Suppression Therapy? Cinzia Colapinto, Davide La Torre, Danilo Liuzzi, and Aymeric Vié: Towards the Realization of the Europe 2020 Agenda for Economic Growth in the European Union: An Analysis based on Goal Programming Flaviano Battelli, Michal Feckan: On the Poincaré– Andronov–Melnikov Method for Modelling of Grazing Periodic Solutions in Discontinuous Systems Kolade M. Owolabi and Hemen Dutta: Modeling and Analysis of Predation System with Nonlocal and Nonsingular Operator Devendra Kumar and Jagdev Singh: New Aspects of Fractional Epidemiological Model for Computer Viruses with Mittag–Leffler Law Kolade M. Owolabi: Numerical Simulation of Nonlinear Ecological Models with Nonlocal and Nonsingular Fractional Derivative.
Sommario/riassunto	This book discusses significant research findings in the field of mathematical modelling, with particular emphasis on important applied-sciences, health, and social issues. It includes topics such as model on viral immunology, stochastic models for the dynamics of influenza, model describing the transmission of dengue, model for human papillomavirus (HPV) infection, prostate cancer model, realization of economic growth by goal programming, modelling of grazing periodic solutions in discontinuous systems, modelling of predation system, fractional epidemiological model for computer viruses, and nonlinear ecological models. A unique addition in the proposed areas of research and education, this book is a valuable resource for graduate students, researchers and educators associated with the study of mathematical modelling of health, social and applied-sciences issues. Readers interested in applied mathematics should also find this book valuable.