1. Record Nr. UNINA9910700301403321

Titolo	Zimbabwe Transition to Democracy and Economic Recovery Act of 2010 [[electronic resource]] : report (to accompany S. 3297)
Pubbl/distr/stampa	[Washington, D.C.] : , : [U.S. G.P.O.], , [2010]
Descrizione fisica	1 online resource (12 pages)
Collana	Report / 111th Congress, 2d session, Senate ; ; 111-369
Soggetti	Democratization - Zimbabwe Democratization - Government policy - United States Economic development - Zimbabwe Economic development projects - Law and legislation - United States Economic assistance, American - Zimbabwe United States Relations Zimbabwe Zimbabwe Relations United States
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from PDF title screen (viewed on Mar. 15, 2011). "December 15, 2010."

2. Record Nr. UNINA9910254069503321

Autore	Chou Ching Shan
Titolo	Introduction to Mathematical Biology : Modeling, Analysis, and Simulations / / by Ching Shan Chou, Avner Friedman
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-29638-8
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VII, 172 p. 49 illus., 38 illus. in color.)
Collana	Springer Undergraduate Texts in Mathematics and Technology, , 1867-5506
Disciplina	570.151
Soggetti	Biomathematics Mathematical physics Systems biology Biological systems Mathematical and Computational Biology Mathematical Applications in the Physical Sciences Systems Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Introduction -- Bacterial Growth in Chemostat -- System of Two Linear Differential Equations -- System of Two Differential Equations -- Predator-Prey Models -- Two Competing Populations -- General Systems of Differential Equations -- The Chemostat Model Revisited -- Spread of Disease -- Enzyme Dynamics -- Bifurcation Theory -- Atherosclerosis: The Risk of High Cholesterol -- Cancer-Immune Interaction. Cancer Therapy -- Tuberculosis -- Solutions.
Sommario/riassunto	This book is based on a one semester course that the authors have been teaching for several years, and includes two sets of case studies. The first includes chemostat models, predator-prey interaction, competition among species, the spread of infectious diseases, and oscillations arising from bifurcations. In developing these topics, readers will also be introduced to the basic theory of ordinary differential equations, and how to work with MATLAB without having any prior programming experience. The second set of case studies

were adapted from recent and current research papers to the level of the students. Topics have been selected based on public health interest. This includes the risk of atherosclerosis associated with high cholesterol levels, cancer and immune interactions, cancer therapy, and tuberculosis. Readers will experience how mathematical models and their numerical simulations can provide explanations that guide biological and biomedical research. Considered to be the undergraduate companion to the more advanced book "Mathematical Modeling of Biological Processes" (A. Friedman, C.-Y. Kao, Springer – 2014), this book is geared towards undergraduate students with little background in mathematics and no biological background.