

1. Record Nr.	UNINA9910788790003321
Titolo	Mathematical studies on human disease dynamics : emerging paradigms and challenges : AMS-IMS-SIAM Joint Summer Research Conference on modeling the dynamics of human diseases : emerging paradigms and challenges, July 17-21, 2005, Snowbird, Utah / / Abba B. Gumel, editor-in-chief ; Carlos Castillo-Chavez, Ronald E. Mickens, Dominic P. Clemence, editors
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [2006] ©2006
ISBN	0-8218-8073-X 0-8218-3775-3
Descrizione fisica	1 online resource (406 p.)
Collana	Contemporary mathematics, , 0271-4132 ; ; 410
Disciplina	614.401/5118
Soggetti	Epidemiology - Mathematical models Diseases - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Contents""; ""Preface""; ""Prologue""; ""List of Participants""; ""The impact of environmental variation on hantavirus infection in rodents""; ""Preventive treatment of tuberculosis through contact tracing""; ""Optimal vaccination strategies for an influenza-like illness in a heterogeneous population""; ""Mathematical applications associated with the deliberate release of infectious agents""; ""Critical response to post-outbreak vaccination against foot-and-mouth disease""; ""Some promising approaches to tumor-immune modeling"" ""Impact of prophylactic vaccination against human papillomavirus infection""""Population dynamics of developmental deficits due to an environmental neurotoxicant""; ""Optimal therapy regimens for treatment-resistant mutations of HIV""; ""Cancer modeling: A perspective on what's new and what's next""; ""Understanding a killer: A predictive model for tumor development""; ""Optimal control methods applied to disease models""; ""Infection dynamics on small-world networks""; ""Moving beyond averages: Individual-level variation in disease transmission""

""Models for the spread of HIV /AIDS: Trends in Southern Africa"""
Epidemic spread in populations at demographic equilibrium""; ""Models
for Dengue transmission and control""; ""Seasonality of rotavirus
infection with its vaccination""; ""Current research issues in mosquito-
borne diseases modeling""; ""The role of transactional sex in spreading
HIV in Nigeria""
