

1. Record Nr.	UNIORUON00091093
Titolo	VOLSINII / Introduzione, edizione e Commento a cura di Carlo Carletti
Pubbl/distr/stampa	Bari, : Edipuglia, 1985 81 p. ; 22 cm
Classificazione	D
Soggetti	EPIGRAFIA CRISTIANA
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910484119603321
Titolo	Mathematical epidemiology / / Fred Brauer, Pauline van den Driessche, Jianhong Wu (eds.) ; with contributions by L.J.S. Allen ... [et al.]
Pubbl/distr/stampa	Berlin, : Springer, 2008
ISBN	9783540789116 3540789111
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (XVIII, 414 p. 71 illus., 27 illus. in color.)
Collana	Lecture notes in mathematics, , 0075-8434 ; ; 1945
Altri autori (Persone)	BrauerFred Van den DriesschePauline <1941-> WuJianhong <1964-> AllenLinda J. S
Disciplina	614.4
Soggetti	Epidemiology - Mathematical models Public health - Mathematical models Biomathematics Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Introduction and general framework -- pt. 2. Advanced modeling

and heterogeneities -- pt. 3. Case studies.

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## Sommario/riassunto

Based on lecture notes of two summer schools with a mixed audience from mathematical sciences, epidemiology and public health, this volume offers a comprehensive introduction to basic ideas and techniques in modeling infectious diseases, for the comparison of strategies to plan for an anticipated epidemic or pandemic, and to deal with a disease outbreak in real time. It covers detailed case studies for diseases including pandemic influenza, West Nile virus, and childhood diseases. Models for other diseases including Severe Acute Respiratory Syndrome, fox rabies, and sexually transmitted infections are included as applications. Its chapters are coherent and complementary independent units. In order to accustom students to look at the current literature and to experience different perspectives, no attempt has been made to achieve united writing style or unified notation. Notes on some mathematical background (calculus, matrix algebra, differential equations, and probability) have been prepared and may be downloaded at the web site of the Centre for Disease Modeling ([www.cdm.yorku.ca](http://www.cdm.yorku.ca) ).

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