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This book is designed
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follow implementation and analysis of mathematical models and data using R epidemiology. The book focuses on recent case studies in order to explore various conceptual, mathematical, and statistical issues. The dynamics of infectious diseases shows a wide diversity of pattern. Some have

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locally persistent chains-of-transmission, others persist spatially in 'consumer-resource metapopulations'.

Some infections are prevalent among the young, some among the old and some are age-invariant.

Temporally, some diseases have little variation in

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prevalence, some have predictable seasonal shifts and others exhibit violent epidemics that may be regular or irregular in their timing. Models and 'models-with-data' have proved invaluable for understanding and predicting this diversity, and thence help improve

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Intervention and control. Using mathematical models to understand infectious disease dynamics has a very rich history in epidemiology. The field has seen broad expansions of theories as well as a surge in real-life application of mathematics to

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dynamics and control of infectious disease. The chapters of Epidemics: Models and Data using R have been organized in a reasonably logical way: Chapters 1-10 is a mix and match of models, data and statistics pertaining to local disease dynamics; Chapters 11-13 pertains to

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spatial and
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dynamics; Chapter 14
highlights similarities
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overview additional
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Various types of deterministic dynamical models are considered: ordinary differential equation models, delay-differential equation

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