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| Descrizione fisica | 1 online resource (225 p.) |
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| Soggetti | Medical mapping Medical geography Public health surveillance Epidemiology |
| 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 and index. |
| Nota di contenuto | ""Cover""; ""Contents""; ""Preface"; ""Acknowledgments"; ""1 Introduction"; "Ecology and Biogeography"; ""This Book""; ""Conclusions"; ""Part I: Distributional Ecology"; ""2 General Conceptual Framework for Speciesa€? Distributions"; ""Historical Background"; ""A General Schema of Distributional Ecology"; ""Disease Systems"; ""Conclusions"; ""3 Status of Data for Understanding Disease Distributions"; ""Disease Case-Occurrence Data Sets""; "Relevant Biodiversity Occurrence Data Sets"; ""Georeferencing""; ""The Meaning of No Records""; ""Conclusions"" ""4 Current Tools for Understanding Disease Distributions"""The Current Toolkit"; "Shortcomings of the Current Methodologies""; "Conclusions"; "Part II: Disease Modeling Basics""; ""5 Modifications to the Basic Framework"; ""Disease Peculiarities""; "Real-World Examples: West Nile Virus and Others"; ""Implications for Disease Modeling"; "Conclusions"; "6 Modeling Components versus Outcomes""; "Black-Box Approaches"; "Component-Based Approaches""; "Tombined Approaches"; "Conclusions"" "7 Space-Only versus Space-and-Environment Models"""Examples and Illustrations"; "Part III: Preparing the Data""; "8 Garbage-In- |

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Garbage-Out Principle"; ""Problems with Data Quality""; ""Biases Created by Geography""; ""Conclusions""; ""9 Assembling Occurrence Data""; ""General Considerations""; ""Obtaining and Improving Occurrence Data""; ""Compatibility and Study Design""; ""Conclusions""; ""10 Assembling Environmental Data""; ""Relevance to Speciesa€? Distributions""; ""General Considerations""

""Modifiable Areal Unit Problem""""Specific Data Resources""; ""Conclusions""; ""11 Study Areas and BAM""; ""Defining the Area M""; ""Sampling Considerations""; ""BAM Configurations""; ""Details of M and A for Model Transfers""; ""Conclusions""; ""Part IV: Developing Models""; "12 Calibrating Niche Models""; ""Introduction to Niche Models""; ""Nuts and Bolts""; ""Calibrating the a€œBesta€? Model"; ""Transferring and Extrapolating"; ""Characterizing Ecological Niches""; ""Conclusions""; ""13 Processing Raw Outputs into Useful Maps"";

"Choosing Appropriate Thresholds""

""From Potential to Actual Distributions""""Projecting and Transferring Models""; ""Conclusions""; ""14 Evaluating Niche Models""; ""Controversies and Inappropriate Approaches""; ""Basic Concepts""; ""The Confusion Matrix and Its Implications""; ""Binary Model Evaluation""; ""Continuous Model Evaluation"; ""Model Evaluation and Model Performance""; ""Conclusions""; ""15 Developing Risk Maps""; ""Initial Estimates""; ""Risk Modifiers""; ""Type I versus Type II Errors""; ""Overlay, Testing, and Simulation""; ""Conclusions""; ""Part V: Examples of Applications"; ""16 Identifying Risk Factors""

""Black-Box Disease Ecology""