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Descrizione fisica	1 online resource (336 p.)
Collana	Pure and Applied Mathematics : A Wiley Series of Texts, Monographs and Tracts
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Title Page; Copyright Page; Contents; List of Contributors; Preface; Section 1 Introduction; Chapter 1 Universality of Mathematical Models in Understanding Nature, Society, and Man-Made World; 1.1 Human Knowledge, Models, and Algorithms; 1.2 Looking into the Future from a Modeling Perspective; 1.3 What This Book Is About; 1.4 Concluding Remarks; References; Section 2 Advanced Mathematical and Computational Models in Physics and Chemistry; Chapter 2 Magnetic Vortices, Abrikosov Lattices, and Automorphic Functions; 2.1 Introduction; 2.2 The Ginzburg-Landau Equations 2.2.1 Ginzburg-Landau energy 2.2.2 Symmetries of the equations; 2.2.3 Quantization of flux; 2.2.4 Homogeneous solutions; 2.2.5 Type I and Type II superconductors; 2.2.6 Self-dual case $=1$ 2; 2.2.7 Critical magnetic fields; 2.2.8 Time-dependent equations; 2.3 Vortices; 2.3.1 n-vortex solutions; 2.3.2 Stability; 2.4 Vortex Lattices; 2.4.1 Abrikosov lattices; 2.4.2 Existence of Abrikosov lattices; 2.4.3 Abrikosov lattices as gauge-equivariant states; 2.4.4 Abrikosov function; 2.4.5 Comments on the proofs of existence results; 2.4.6 Stability of Abrikosov lattices; 2.4.7 Functions (\cdot) , > 0 2.4.8 Key ideas of approach to stability 2.5 Multi-Vortex Dynamics; 2.6

Conclusions; Appendix 2.A Parameterization of the equivalence classes [L]; Appendix 2.B Automorphy factors; Acknowledgments; References; Chapter 3 Numerical Challenges in a Cholesky-Decomposed Local Correlation Quantum Chemistry Framework; 3.1 Introduction; 3.2 Local MRSDCI; 3.2.1 MRSDCI; 3.2.2 Symmetric group graphical approach; 3.2.3 Local electron correlation approximation; 3.2.4 Algorithm summary; 3.3 Numerical Importance of Individual Steps; 3.4 Cholesky Decomposition; 3.5 Transformation of the Cholesky Vectors 3.6 Two-Electron Integral Reassembly 3.7 Integral and Execution Buffer; 3.8 Symmetric Group Graphical Approach; 3.9 Summary and Outlook; Acknowledgments; References; Chapter 4 Generalized Variational Theorem in Quantum Mechanics; 4.1 Introduction; 4.2 First Proof; 4.3 Second Proof; 4.4 Conclusions; Acknowledgments; References; Section 3 Mathematical and Statistical Models in Life and Climate Science Applications; Chapter 5 A Model for the Spread of Tuberculosis with Drug-Sensitive and Emerging Multidrug-Resistant and Extensively Drug-Resistant Strains; 5.1 Introduction; 5.1.1 Model formulation 5.1.2 Mathematical Analysis 5.1.2.1 Basic properties of solutions; 5.1.2.2 Nature of the disease-free equilibrium; 5.1.2.3 Local asymptotic stability of the DFE; 5.1.2.4 Existence of subthreshold endemic equilibria; 5.1.2.5 Global stability of the DFE when the bifurcation is "forward"; 5.1.2.6 Strain-specific global stability in "forward" bifurcation cases; 5.2 Discussion; References; Chapter 6 The Need for More Integrated Epidemic Modeling with Emphasis on Antibiotic Resistance; 6.1 Introduction; 6.2 Mathematical Modeling of Infectious Diseases 6.3 Antibiotic Resistance, Behavior, and Mathematical Modeling

Sommario/riassunto

Illustrates the application of mathematical and computational modeling in a variety of disciplines With an emphasis on the interdisciplinary nature of mathematical and computational modeling, Mathematical and Computational Modeling: With Applications in the Natural and Social Sciences, Engineering, and the Arts features chapters written by well-known, international experts in these fields and presents readers with a host of state-of-the-art achievements in the development of mathematical modeling and computational experiment methodology. The book is a valuable guide to the methods, ideas,

2. Record Nr.	UNINA9910154582403321
Autore	Dane Joseph A.
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ISBN	1-351-96115-2 1-138-25149-6 1-315-26347-5
Descrizione fisica	1 online resource (185 pages) : illustrations
Disciplina	094.2
Soggetti	Bibliography - Methodology Incunabula - Bibliography - Methodology Early printed books - Methodology Manuscripts, Medieval Literature, Medieval - Criticism, Textual Bibliography, Critical Transmission of texts Editions
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Livello bibliografico	Monografia
Note generali	First published 2009 by Ashgate Publishing.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	pt. 1. Inference and evidence in medieval books -- pt. 2. What is a book?
Sommario/riassunto	In this book, Joseph Dane critiques the use of material evidence in studies of manuscript and printed books by delving into accepted notions about the study of print culture. He questions the institutional and ideological presuppositions that govern medieval studies, descriptive bibliography, and library science. Dane begins by asking what is the relation between material evidence and the abstract statements made about the evidence; ultimately he asks how evidence is to be defined. The goal of this book is to show that evidence from texts and written objects often becomes twisted to support pre-existing arguments; and that generations of bibliographers have created narratives of authorship, printing, reading, and editing that

reflect romantic notions of identity, growth, and development. The first part of the book is dedicated to medieval texts and authorship: materials include Everyman, Chaucer's Legend of Good Women, the Anglo-Norman Le Seint Resurrection, and Adam de la Helle's Le Jeu de Robin et Marion. The second half of the book is concerned with abstract notions about books and scholarly definitions about what a book actually is: chapters include studies of basic bibliographical concepts ("Ideal Copy") and the application of such a notion in early editions of Chaucer, the combination of manuscript and printing in the books of Colard Mansion, and finally, examples of the organization of books by an early nineteenth-century book-collector Leander Van Ess. This study is an important contribution to debates about the nature of bibliography and the critical institutions that have shaped its current practice.
