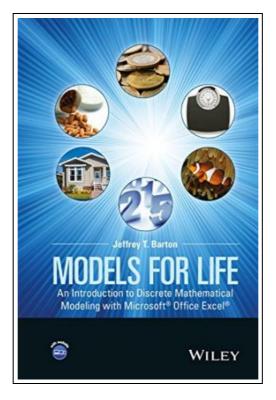
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It becomes an remarkable publication that we have possibly go through. It is among the most remarkable book i actually have read through. Your lifestyle period will likely be transform when you total reading this publication.

(Dominique Bergstrom)

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John Wiley Sons Inc, United States, 2016. Hardback. Condition: New. Language: English . Brand New Book. Features an authentic and engaging approach to mathematical modeling driven by real-world applications With a focus on mathematical models based on real and current data, Models for Life: An Introduction to Discrete Mathematical Modeling with Microsoft (R) Office Excel (R) guides readers in the solution of relevant, practical problems by introducing both mathematical and Excel techniques. The book begins with a step-by-step introduction to discrete dynamical systems, which are mathematical models that describe how a quantity changes from one point in time to the next. Readers are taken through the process, language, and notation required for the construction of such models as well as their implementation in Excel. The book examines single-compartment models in contexts such as population growth, personal finance, and body weight and provides an introduction to more advanced, multi-compartment models via applications in many areas, including military combat, infectious disease epidemics, and ranking methods. Models for Life: An Introduction to Discrete Mathematical Modeling with Microsoft (R) Office Excel (R) also features: A modular organization that, after the first chapter, allows readers to explore chapters in any orderNumerous practical examples and exercises that enable readers to personalize the presented models by using their own dataCarefully selected real-world applications that motivate the mathematical material such as predicting blood alcohol concentration, ranking sports teams, and tracking credit card debtReferences throughout the book to disciplinary research on which the presented models and model parameters are based in order to provide authenticity and resources for further studyRelevant Excel concepts with step-by-step guidance, including screenshots to help readers better understand the presented materialBoth mathematical and graphical techniques for understanding concepts such as equilibrium values, fixed points, disease endemicity, maximum sustainable yield, and a drug s therapeutic windowA...



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