Applied Mathematical Demography (Springer Series in Statistics)

Nathan Keyfitz

Applied Mathematical Demography (Springer Series in Statistics)

Nathan Keyfitz

Applied Mathematical Demography (Springer Series in Statistics) Nathan Keyfitz
The third edition of this classic text maintains its focus on applications of demographic models, while extending its scope to matrix models for stage-classified populations. The authors first introduce the life table to describe age-specific mortality, and then use it to develop theory for stable populations and the rate of population increase. This theory is then revisited in the context of matrix models, for stage-classified as well as age-classified populations. Reproductive value and the stable equivalent population are introduced in both contexts, and Markov chain methods are presented to describe the movement of individuals through the life cycle. Applications of mathematical demography to population projection and forecasting, kinship, microdemography, heterogeneity, and multi-state models are considered. The new edition maintains and extends the book's focus on the consequences of changes in the vital rates. Methods are presented for calculating the sensitivity and elasticity of population growth rate, life expectancy, stable stage distribution, and reproductive value, and for applying those results in comparative studies. Stage-classified models are important in both human demography and population ecology, and this edition features examples from both human and non-human populations. In short, this third edition enlarges considerably the scope and power of demography. It will be an essential resource for students and researchers in demography and in animal and plant population ecology. Nathan Keyfitz is Professor Emeritus of Sociology at Harvard University. After holding positions at Canada's Dominion Bureau of Statistics, the University of Chicago, and the University of California at Berkeley, he became Andelot Professor of Sociology and Demography at Harvard in 1972. After retiring from Harvard, he became Director of the Population Program at the International Institute for Applied Systems Analysis (IIASA) in Vienna from 1983 to 1993. Keyfitz is a member of the U.S. National Academy of Sciences and the Royal Society of Canada, and a Fellow of the American Academy of Arts and Sciences. He has received the Mindel Sheps Award of the Population Association of America and the Lazarsfeld Award of the American Sociological Association, and was the 1997 Laureate of the International Union for the Scientific Study of Population. He has written 12 books, including Introduction to the Mathematics of Population (1968) and, with Fr. Wilhelm Flieger, SVD, World Population Growth and Aging: Demographic Trends in the Late Twentieth Century (1990). Hal Caswell is a Senior Scientist in the Biology Department of the Woods Hole Oceanographic Institution, where he holds the Robert W. Morse Chair for Excellence in Oceanography. He is a Fellow of the American Academy of Arts and Sciences. He has held a Maclaurin Fellowship from the New Zealand Institute of Mathematics and its Applications and a John Simon Guggenheim Memorial Fellowship. His research focuses on mathematical population ecology with applications in conservation biology. He is the author of Matrix Population Models: Construction, Analysis, and Interpretation (2001).

Download and Read Free Online Applied Mathematical Demography (Springer Series in Statistics) Nathan Keyfitz

---

From reader reviews:

Danny Chamberland:

What do you think about book? It is just for students as they are still students or the item for all people in the world, the actual best subject for that? Just you can be answered for that question above. Every person has different personality and hobby for every other. Don't to be pushed someone or something that they don't desire do that. You must know how great as well as important the book Applied Mathematical Demography (Springer Series in Statistics). All type of book could you see on many options. You can look for the internet sources or other social media.

Elaine Moore:

What do you about book? It is not important to you? Or just adding material when you want something to explain what the ones you have problem? How about your free time? Or are you busy individual? If you don't have spare time to accomplish others business, it is make one feel bored faster. And you have time? What did you do? All people has many questions above. They must answer that question due to the fact just their can do which. It said that about publication. Book is familiar in each person. Yes, it is correct. Because start from on jardín de infancia until university need this kind of Applied Mathematical Demography (Springer Series in Statistics) to read.

Carmela Randle:

Reading a publication can be one of a lot of task that everyone in the world likes. Do you like reading book and so. There are a lot of reasons why people love it. First reading a reserve will give you a lot of new data. When you read a e-book you will get new information mainly because book is one of many ways to share the information or maybe their idea. Second, reading a book will make you more imaginative. When you reading a book especially fictional book the author will bring you to imagine the story how the personas do it anything. Third, you can share your knowledge to other folks. When you read this Applied Mathematical Demography (Springer Series in Statistics), you could tells your family, friends along with soon about yours e-book. Your knowledge can inspire the mediocre, make them reading a publication.

Oscar Jackson:

Do you like reading a e-book? Confuse to looking for your selected book? Or your book seemed to be rare? Why so many problem for the book? But almost any people feel that they enjoy for reading. Some people likes looking at, not only science book but in addition novel and Applied Mathematical Demography (Springer Series in Statistics) or others sources were given expertise for you. After you know how the truly great a book, you feel need to read more and more. Science e-book was created for teacher or maybe students especially. Those guides are helping them to include their knowledge. In different case, beside science guide, any other book likes Applied Mathematical Demography (Springer Series in Statistics) to make your spare time a lot more colorful. Many types of book like here.

Download and Read Online Applied Mathematical Demography (Springer Series in Statistics) Nathan Keyfitz #AV4T0PQS92X

Read Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz for online ebook

Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz books to read online.

Online Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz ebook PDF download

Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz Doc

Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz Mobipocket

Applied Mathematical Demography (Springer Series in Statistics) by Nathan Keyfitz EPub