

Introduction to Linear Algebra for Social Scientists (Unwin University Books)

Mills, Gordon

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Matrix Algebra For Social Scientists

Alfred Gordon Hammer



Matrix Algebra For Social Scientists:

Matrix Algebra for Social Scientists Paul Horst, 1961

Introduction to linear algebra Gordon Mills, 2007-08-01

This is the first book on linear algebra written specifically for social scientists. It deals only with those aspects of the subject applicable in the social sciences and provides a thorough understanding of linear algebra for those who wish to use it as a tool in the design, execution and interpretation of research. Linear mathematical models play an important role in all of the social sciences. This book provides a step by step introduction to those parts of linear algebra which are useful in such model building. It illustrates some of the applications of linear analysis and helps the reader learn how to convert his formulation of a social science problem into algebraic terms. The author covers matrix algebra, computational methods, linear models involving discrete variables and clear, complete explanations of necessary mathematical concepts. Prior knowledge of calculus is not required since no use is made of calculus or of complex numbers. A novel feature of the mathematical content of the book is the treatment of models expressed in terms of variables which must be whole numbers, integers. The book is distinguished by a step by step exposition that allows the reader to grasp quickly and fully the principles of linear algebra. All of the examples used to illustrate the text are drawn from the social sciences, enabling the reader to relate the subject to concrete problems in his field. Exercises are included as a necessary part of the text to develop points not covered in the text and to provide practice in the algebraic formulation of applied problems. An appendix gives solutions or hints for selected exercises. Gordon Mills is an honorary professor in the department of economics at the University of Sydney. His research interests include transport and retailing, microeconomics and microeconomic policy, especially regulation and privatization. He is the author of many journal articles.

Matrices and Society Ian Bradley, Ronald L. Meek, 2014-07-14. Matrices offer some of the most powerful techniques in modern mathematics. In the social sciences they provide fresh insights into an astonishing variety of topics. Dominance matrices can show how power struggles in offices or committees develop. Markov chains predict how fast news or gossip will spread in a village. Permutation matrices illuminate kinship structures in tribal societies. All these invaluable techniques and many more are explained clearly and simply in this wide-ranging book. Originally published in 1986, The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

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book provides a step by step introduction to those parts of linear algebra which are useful in such model building It illustrates some of the applications of linear analysis and helps the reader learn how to convert his formulation of a social science problem into algebraic terms The author covers matrix algebra computational methods linear models involving discrete variables and clear complete explanations of necessary mathematical concepts Prior knowledge of calculus is not required since no use is made of calculus or of complex numbers A novel feature of the mathematical content of the book is the treatment of models expressed in terms of variables which must be whole numbers integers The book is distinguished by a step by step exposition that allows the reader to grasp quickly and fully the principles of linear algebra All of the examples used to illustrate the text are drawn from the social sciences enabling the reader to relate the subject to concrete problems in his field Exercises are included as a necessary part of the text to develop points not covered in the text and to provide practice in the algebraic formulation of applied problems An appendix gives solutions or hints for selected exercises Provided by publisher

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umbrella of Project Gunrunner intended to stem the flow of firearms to Mexico the Bureau of Alcohol Tobacco Firearms and Explosives ATF ran a series of gun walking sting operations including Operations Wide Receiver and Operation Fast Furious The government allowed licensed gun dealers to sell weapons to illegal straw buyers so that they could continue to track the firearms as they were transferred to higher level traffickers and key figures in Mexican cartels Motivated by a sense of patriotic duty Tucson gun dealer and author Mike Detty alerted the local ATF office when he was first approached by suspected cartel associates Detty made the commitment and assumed the risks involved to help the feds make their case often selling guns to these thugs from his home in the dead of night Originally informed that the investigation would last just weeks Detty s undercover involvement in Operation Wide Receiver the precursor to Operation Fast Furious which was by far the largest gun walking probe stretched on for an astonishing and dangerous three years Though the case took several twists and turns perhaps the cruelest turn was his betrayal by the very agency he risked everything to help

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