Finite Mathematics: Models and Applications

By Carla C. Morris, Robert M. Stark

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Features step-by-step examples based on actual data and connects fundamental mathematical modeling skills and decision making concepts to everyday applicability

Featuring key linear programming, matrix, and probability concepts, *Finite Mathematics: Models and Applications* emphasizes cross-disciplinary applications that relate mathematics to everyday life. The book provides a unique combination of practical mathematical applications to illustrate the wide use of mathematics in fields ranging from business, economics, finance, management, operations research, and the life and social sciences.

In order to emphasize the main concepts of each chapter, *Finite Mathematics: Models and Applications* features plentiful pedagogical elements throughout such as special exercises, end notes, hints, select solutions, biographies of key mathematicians, boxed key principles, a glossary of important terms and topics, and an overview of use of technology. The book encourages the modeling of linear programs and their solutions and uses common computer software programs such as LINDO. In addition to extensive chapters on probability and statistics, principles and applications of matrices are included as well as topics for enrichment such as the Monte Carlo method, game theory, kinship matrices, and dynamic programming.

Supplemented with online instructional support materials, the book features coverage including:

- Algebra Skills
- Mathematics of Finance
- Matrix Algebra
- Geometric Solutions
- Simplex Methods
- Application Models
- Set and Probability Relationships
- Random Variables and Probability Distributions
- Markov Chains

- Mathematical Statistics
- Enrichment in Finite Mathematics

An ideal textbook, *Finite Mathematics: Models and Applications* is intended for students in fields from entrepreneurial and economic to environmental and social science, including many in the arts and humanities.

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Editorial Review

Review
"I would recommend this book to undergraduate students in mathematics, economics, engineering who are interested in finite mathematics." (Zentralblatt MATH 2016)

From the Back Cover

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Carla C. Morris, PhD, is Assistant Professor of Mathematics in the Associate in Arts Program at the University of Delaware. A member of The Institute for Operations Research and the Management Sciences and the Mathematical Association of America, Dr. Morris teaches courses ranging from college algebra to calculus and statistics.

Robert M. Stark, PhD, is Professor Emeritus in the Departments of Mathematical Sciences and Civil and Environmental Engineering at the University of Delaware. Dr. Stark's teaching and research interests include applied probability, mathematical optimization, operations research, and mathematics education.

About the Author

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