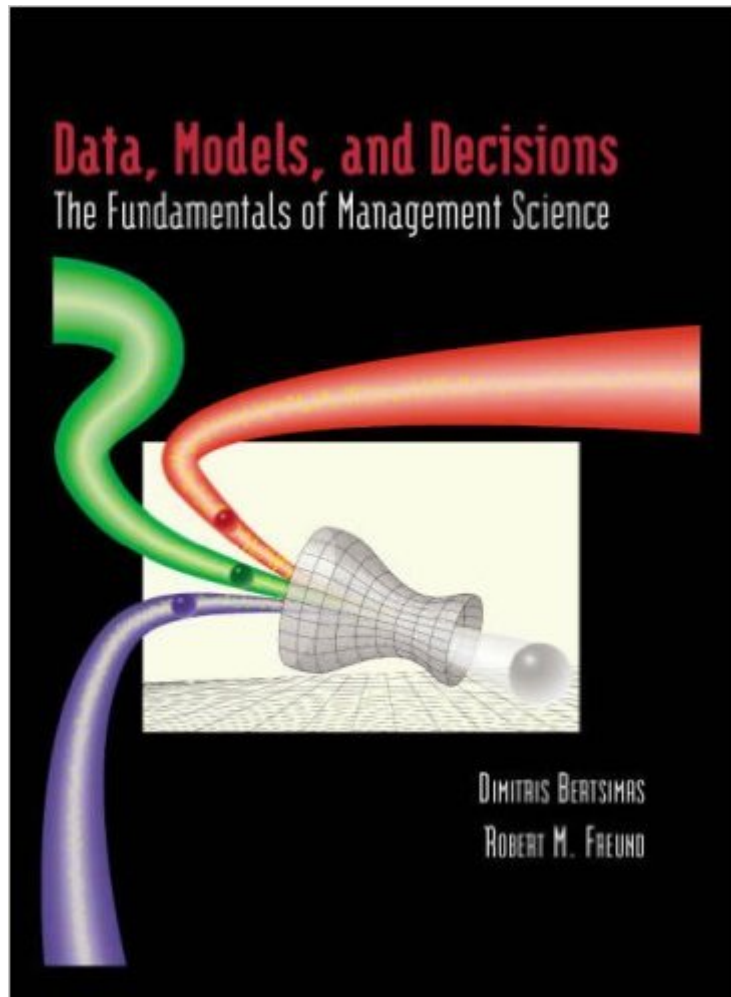# Data, Models, And Decisions: The Fundamentals Of Management Science

Synopsis

This book represents a departure from existing textbooks. Rather than covering methodology, the book introduces decision support systems through real world applications, and uses spreadsheets to model and solve problems. It uses management science techniques (statistics, simulation, probabilistic modeling and optimization), but only as tools to facilitate problem solving. The book embraces George Dantzig's dictum as its premise: "The final test of any theory is its capacity to solve the problems which originated it." The book is used in the core MBA program at MIT's Sloan School of Management for the class titled: "Data, Models and Decisions". It is used in over ten universities in both core and elective classes, including Stanford University, Chicago's graduate school of Business, Babson College, among several others. The book contains many real business cases from the authors' consulting experience. Instructor resources are available for faculty who have adopted the book for their course by contacting the authors directly @ dbertsim@mit.edu, rfreund@mit.edu)

Book Information

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Customer Reviews

I used this textbook in my DMD class at MIT and I have to say it saved my butt many times when the lecture material was not entirely clear to me. The book is well written and the practical examples they use are interesting. With very little explanation, you can sit down with the book and learn or relearn the material. Unlike most of my textbooks, I intend to keep this one after the class is over. Very nice guide to a useful subject.

For anyone looking for an introduction to the basics of data models this is one of the best in a long line of books in this area and the main book you will need. The presentation covers this important theory very thoroughly, including all the major topics. The presentation is crisp and while it will be best appreciated by graduate students and the industrial community, most of the presentation can be easily understood by an undergraduate audience with a strong background in probability.

Taking care of very deep topics, it is clear every explanation, making it easy to understand, allowing me to have very good results in the university.

Good Book

Data, Models, and Decisions: The Fundamentals of Management Science Data Analytics: What Every Business Must Know About Big Data And Data Science (Data Analytics for Business, Predictive Analysis, Big Data) Data Analytics: Practical Data Analysis and Statistical Guide to Transform and Evolve Any Business. Leveraging the Power of Data Analytics, Data ... (Hacking Freedom and Data Driven) (Volume 2) Analytics: Data Science, Data Analysis and Predictive Analytics for Business (Algorithms, Business Intelligence, Statistical Analysis, Decision Analysis, Business Analytics, Data Mining, Big Data) Loss Models: From Data to Decisions Data Science and Big Data Analytics: Discovering, Analyzing, Visualizing and Presenting Data Data Science for Business: What You Need to Know about Data Mining and Data-Analytic Thinking Difficult Decisions in Colorectal Surgery (Difficult Decisions in Surgery: An Evidence-Based Approach) Impossible to Ignore: Creating Memorable Content to Influence Decisions: Creating Memorable Content to Influence Decisions The Data Model Resource Book, Vol. 2: A Library of Data Models for Specific Industries The Data Model Resource Book, Vol. 1: A Library of Universal Data Models for All Enterprises Fundamentals of Sport Management (Human Kinetics' Fundamentals of Sport and Exercise Science) Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data (Data-Centric Systems and Applications) Unsupervised Machine Learning in Python: Master Data Science and Machine Learning with Cluster Analysis, Gaussian Mixture Models, and Principal Components Analysis Head First Data Analysis: A learner's guide to big numbers, statistics, and good decisions Statistics: Informed Decisions Using Data (4th Edition) Supply Chain Management: Fundamentals, Strategy, Analytics & Planning for Supply Chain & Logistics Management (Logistics, Supply Chain Management, Procurement) A collection of Advanced Data Science and Machine Learning

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