

100 Excel Simulations

Using Excel to Model Risk, Investments, Genetics, Growth, Gambling and Monte Carlo Analysis



Dr. Gerard M. Verschuuren

Excel Simulations

Lingsheng Yao



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Simulation and Statistics with Excel Luis Fernando Ibarra,2024-05-15 The use of simulation techniques has increased in importance in recent history and simulation activities are an important resource for advanced preparation for the organization and execution of events When formal mathematics is not enough simulation may be the only option capable of approximating solutions Simulation and Statistics with Excel An Introduction to Business Students offers a non rigorous and practical tour of the simulation procedure on computers using a versatile and accessible resource the Microsoft Excel spreadsheet This book covers the concepts essential to understanding the basic principles and approaches of statistical simulation allowing for the study of complex systems Aimed at students in business and operational research beginning to use simulation as an instrument for understanding existing or proposed processes this book will lay solid foundations in understanding simulation experimentation Key Features Provides a basis to understand the approaches and principles of simulator experiments Uses a universal and easily accessible resource Introduces simple examples to teach the fundamentals of simulation

Excel Simulations in Action Gerard M. Verschuuren,2018

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Modelling in Practice Michael Rees,2015-08-05 The complete guide to the principles and practice of risk quantification for business applications The assessment and quantification of risk provide an indispensable part of robust decision making to be effective many professionals need a firm grasp of both the fundamental concepts and of the tools of the trade Business Risk and Simulation Modelling in Practice is a comprehensive in depth and practical guide that aims to help business risk managers modelling analysts and general management to understand conduct and use quantitative risk assessment and uncertainty modelling in their own situations Key content areas include Detailed descriptions of risk assessment processes their objectives and uses possible approaches to risk quantification and their associated decision benefits and organisational challenges Principles and techniques in the design of risk models including the similarities and differences with traditional financial models and the enhancements that risk modelling can provide In depth coverage of the principles and concepts in simulation methods the statistical measurement of risk the use and selection of probability distributions the creation of dependency relationships the alignment of risk modelling activities with general risk assessment processes and a range of Excel modelling techniques The implementation of simulation techniques using both Excel VBA macros and the RISK Excel add in Each platform may be appropriate depending on the context whereas the core modelling concepts and risk assessment contexts are largely the same in each case Some additional features and key benefits of using RISK are also covered Business Risk and Simulation Modelling in Practice reflects the author s many years in training and consultancy in these areas It provides clear and complete guidance enhanced with an expert perspective It uses approximately one hundred practical and

real life models to demonstrate all key concepts and techniques these are accessible on the companion website **Applied Simulation Modeling** Andrew F. Seila, Vlatko Cerić, Pandu R. Tadikamalla, 2003 APPLIED SIMULATION MODELING provides the student with both a conceptual introduction to the concepts of simulation modeling and practical experience with real examples using popular commercial simulation packages ARENA and Risk The coverage includes Risk Simulation Dynamic Systems and Discrete Event Simulation models Throughout the text the authors show readers how they can use simulation in the context of decision making Practical examples from Operations Management Manufacturing Health Care and Finance are included throughout to give students an appreciation for the wide scope of application and the robust nature of simulation modeling Special student editions of ARENA and Risk are packaged with the text *Excel Simulations -- 2nd Edition* Geert M. N. Verschuuren, 2016-11 Covering a variety of Excel simulations from gambling to genetics this introduction is for people interested in modeling future events without the cost of an expensive textbook The simulations covered offer a fun alternative to the usual Excel topics and include situations such as roulette password cracking sex determination population growth and traffic patterns among many others **Discrete-event System Simulation** Jerry Banks, 2010 For junior and senior level simulation courses in engineering business or computer science Discrete Event System Simulation examines the principles of modeling and analysis that translate to all software tools rather than a particular software tool This language independent text explains the basic aspects of the technology including the proper collection and analysis of data the use of analytic techniques verification and validation of models and designing simulation experiments It offers an up to date treatment of simulation of manufacturing and material handling systems computer systems and computer networks Students and instructors will find a variety of resources including simulation source code for download additional exercises and solutions web links and errata at the associated website <http://dmnicol.web.engr.illinois.edu/bcnn/index.html>
Simulation Modeling Using @Risk Wayne L. Winston, 1996

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