

# THE ART OF MODELING WITH SPREADSHEETS

Management Science, Spreadsheet Engineering, and Modeling Craft

# STEPHEN G. POWELL KENNETH R. BAKER



Stephen G. Powell, Robert J. Batt

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focused on the mechanics of programming Powell and Batt's emphasis on using simple spreadsheet models to gain business insight which is after all the name of the game is what makes this book stand head and shoulders above the rest This clear and practical book deserves a place on the shelf of every business analyst Jonathan Koomey PhD Lawrence Berkeley National Laboratory and Stanford University author of Turning Numbers into Knowledge Mastering the Art of Problem Solving Most business analysts are familiar with using spreadsheets to organize data and build routine models However analysts often struggle when faced with examining new and ill structured problems Modeling for Insight is a one of a kind guide to building effective spreadsheet models and using them to generate insights With its hands on approach this book provides readers with an effective modeling process and specific modeling tools to become a master modeler. The authors provide a structured approach to problem solving using four main steps frame the problem diagram the problem build a model and generate insights Extensive examples graduated in difficulty help readers to internalize this modeling process while also demonstrating the application of important modeling tools including Influence diagrams Spreadsheet engineering Parameterization Sensitivity analysis Strategy analysis Iterative modeling The real world examples found in the book are drawn from a wide range of fields such as financial planning insurance pharmaceuticals advertising and manufacturing Each chapter concludes with a discussion on how to use the insights drawn from these models to create an effective business presentation Microsoft Office Excel and PowerPoint are used throughout the book along with the add ins Premium Solver Crystal Ball and Sensitivity Toolkit Detailed appendices guide readers through the use of these software packages and the spreadsheet models discussed in the book are available to download via the book s related Web site Modeling for Insight is an ideal book for courses in engineering operations research and management science at the upper undergraduate and graduate levels It is also a valuable resource for consultants and business analysts who often use spreadsheets to better Risk Analysis IV C. A. Brebbia, Wessex Institute of Technology, 2004 The Transactions of understand complex problems IEEE/ACM International Conference on Automated Software Engineering, 2005 Wessex Institute Pref

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