

# Chapter 5 Solutions Spreadsheet Modeling Decision Analysis

Fundamentals of Calculus  
 Wireless Networking: Know It All  
 A Spreadsheet-based Approach  
 Workbook and Technical Supplement  
 Fundamentals of Financial Management  
 Practical Spreadsheet Risk Modeling for Management  
 Mathematical Modeling of Warfare and Combat Phenomenon  
 Spreadsheet Modeling & Decision Analysis  
 Data Mining: Concepts and Techniques  
 Combining .NET, SharePoint, and Office 2010  
 Pro SharePoint Solution Development  
 Cost of Capital  
 Spreadsheet Modeling, Analysis, and Application  
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 STRATEGIC ALLOCATION OF RESOURCES USING LINEAR PROGRAMMING MODEL WITH PARAMETRIC ANALYSIS  
 A Practical Introduction to Management Science  
 Spreadsheet Modeling and Decision Analysis  
 Advancing Into Analytics  
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## KNOX MATTEO

**Fundamentals of Calculus** Cengage Learning  
 Wireless Networking: Know It All Cengage Learning  
 Praise for Fourth Edition of Cost of Capital Workbook and Technical Supplement "Pratt and Grabowski went the extra mile to supplement their magnum opus by providing this Workbook and Technical Supplement. As a finance professor for many years, I know from experience that students and teachers really value supplements to textbooks. It allows the teacher to help the student to review and apply what was presented in the text, and the PowerPoints are a great service to teachers in course preparation. The website provides various worksheets that show the inner workings of the models. I enthusiastically recommend the Workbook and Technical Supplement to finance professors and teachers and their students. —Daniel L. McConaughy, PhD, ASA, Professor of Finance, California State University, Northridge, Valuation Services, Crowe Horwath LLP "The Workbook and Technical Supplement provides a detailed tutorial on understanding and executing the theoretical concepts explained in the Fourth Edition. This supplement is three books in one. Part One is a step-by-step tutorial on estimating certain key components of the cost of equity capital. Part Two provides a bridge between the theory and some practical applications, such as estimating the cost of capital for real property. Parts Three and Four allow the readers to test their comprehension of the concepts and identify areas for a review. It is almost as good as having Professors Pratt and Grabowski looking over your shoulder to ensure that one is both comprehending and correctly implementing the complex concepts." —Ashok Abbott, PhD, Associate Professor of Finance, College of Business & Economics, West Virginia University "This text provides the most comprehensive coverage of cost of capital issues that I have seen to date. Messrs. Pratt and Grabowski have created a very accessible and lucid treatment of what most would consider an opaque subject. The Fourth Edition is especially important for its new topics as well as expanded coverage of concepts from earlier editions. Of particular interest is the review of the extreme market conditions during the 2008–2009 crisis and the effect that the unprecedented volatility had on traditional cost of capital models. For years, Pratt and Grabowski's research has informed the business valuation curriculum of the American Society of Appraisers. This book will be added to our reading list, and thousands of students worldwide will benefit from the state-of-the-art content of the Fourth Edition and the companion Workbook and Technical Supplement. Furthermore, Cost of

Capital, Fourth Edition should be a mandatory part of every valuation practitioner's library. If you buy this book, you can expect it to become well worn and remain on your desk within arm's length until the publication of the Fifth Edition." —John Barton, ASA, CPA, Chairman, Business Valuation Committee, ASA "Cost of capital is so much more complex than it used to be. With so many additional considerations regarding each variable of the cost of capital formula, this book is a must for anyone that needs to understand or develop a discount rate. Even the most experienced practitioner will benefit from the outstanding work of Pratt and Grabowski. This book has to become part of your library." —Gary R. Trugman, CPA/ABV, MCBA, ASA, MVS, President, Trugman Valuation Associates, Inc. **A Spreadsheet-based Approach** John Wiley & Sons  
 Spreadsheet Modeling and Decision Analysis A Practical Introduction to Management Science Managerial Decision Modeling with Spreadsheets  
**Workbook and Technical Supplement** Harvard University Press  
 The Newnes Know It All Series takes the best of what our authors have written to create hard-working desk references that will be an engineer's first port of call for key information, design techniques and rules of thumb. Guaranteed not to gather dust on a shelf! Wireless Networking: Know It All delivers readers from the basics of a wireless system such as antennas and transmitters to current hot topic wireless systems and technologies. The backbone to technologies and applications such as mobile, untethered Internet access, Internet telephony, and high quality multimedia content via the Web is completely covered in this reference. Chapter 1. Basics of Wireless Communications Chapter 2. Basics of Wireless Local Area Networks Chapter 3. Radio Transmitters and Receivers Chapter 4. Radio Propagation Chapter 5. Antennas and Transmission Lines Chapter 6. Communication Protocols and Modulation Chapter 7. High-Speed Wireless Data: System Types, Standards-Based and Proprietary Solutions Chapter 8. Propagation Modeling and Measuring Chapter 9. Indoor Networks Chapter 10. Security in Wireless Local Area Networks Chapter 11. Voice Over Wi-Fi and Other Wireless Technologies Chapter 12. Mobile Ad Hoc Networks Chapter 13. Wireless Sensor Networks Chapter 14. Reliable Wireless Networks for Industrial Applications Chapter 15. Applications and Technologies Chapter 16. System Planning \*A comprehensive overview from best-selling authors including Daniel Dobkin, Ron Olexa, and Alan Bensky \*Explains the theory, concepts, design, and implementation of 802.11, 802.16, and 802.20 wireless networks – the three most popular types \*Includes discussion of indoor networks, signal propagation, network security, and other topics essential for designing robust, secure wireless networks  
**Fundamentals of Financial Management** John Wiley & Sons

"Complex-event processing is simple in principle but hard to do well in practice. This guide presents the principles and motivations for those new to the subject. More importantly, it details the entire thought-landscape of a complete implementation, using TIBCO products as the background. Well worth the read for anyone who is thinking of implementing a complex-event solution. Those who have already implemented one should read it as well, both for another perspective and for a view of the capabilities of the TIBCO products." —Lloyd Fischer, Senior Software Architect, WellCare Health Plans "This complete guide drives you through the specifics of complex-event processing (CEP) design concepts. The book covers all the fundamental aspects and design phases relevant for any TIBCO CEP project implementation, from design through performance-tuning and deployment. I would highly recommend this book to any reader interested in CEP concepts, although a small amount of TIBCO technology knowledge will let you appreciate it more." —Antonio Bruno, Infrastructure Account Manager, UBS AG The architecture series from TIBCO® Press comprises a coordinated set of titles for software architects and developers, showing how to combine TIBCO components to design and build real-world solutions. Complex-event processing is required when multiple events occurring throughout an organization must be sensed, analyzed, prioritized, and acted on in real time. Architecting Complex-Event Processing Solutions with TIBCO® shows how to design and architect complex-event processing systems, addressing all their complexities and achieving maximum efficiency and effectiveness, while delivering superior business value. After reading this book, you will be able to identify opportunities for competitive differentiation through complex-event processing Describe differences between complex-event processing and traditional systems Understand relevant capabilities of the TIBCO BusinessEvents™ product suite Select building-block design patterns for constructing complex-event processing solutions with TIBCO BusinessEvents Address architectural aspects of moving solutions into production Implement proven approaches to designing fault tolerance and high availability Architecting Complex-Event Processing Solutions with TIBCO® is intended for working architects, designers, and developers who want to apply TIBCO products in complex-event processing applications. It is also required reading for anyone seeking TIBCO Certified Architect status.  
**Practical Spreadsheet Risk Modeling for Management** Cengage Learning  
 SPREADSHEET MODELING AND DECISION ANALYSIS, Seventh Edition, provides instruction in the most commonly used management science techniques and shows how these tools can be implemented using Microsoft Office Excel 2013. Important Notice: Media content referenced within the product description

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*Mathematical Modeling of Warfare and Combat Phenomenon* SAGE

Due to the ever-evolving tactics of our enemies, the American intelligence community has been compelled to find more effective methods of managing intelligence analysis. In *Intelligence Analysis*, Robert M. Clark demonstrates that a collaborative, target-centric approach leads to sharper and more effective analysis, while better meeting the needs of the end-user. Comprehensively revised to reflect the changes in the constantly shifting landscape of intelligence, the new fourth edition accounts for recent events and is rife with new examples throughout. Brand new and significantly revised coverage includes chapters on managing the analytic unit, analytic methodologies, and the analytic spectrum, bringing a heightened level of clarity to this outstanding, must-have resource. Clark's practical information and insider perspective create the perfect resource for students and practitioners alike.

*Spreadsheet Modeling & Decision Analysis* Academic Press  
 Data analytics may seem daunting, but if you're an experienced Excel user, you have a unique head start. With this hands-on guide, intermediate Excel users will gain a solid understanding of analytics and the data stack. By the time you complete this book, you'll be able to conduct exploratory data analysis and hypothesis testing using a programming language. Exploring and testing relationships are core to analytics. By using the tools and frameworks in this book, you'll be well positioned to continue learning more advanced data analysis techniques. Author George Mount, founder and CEO of Stringfest Analytics, demonstrates key statistical concepts with spreadsheets, then pivots your existing knowledge about data manipulation into R and Python programming. This practical book guides you through: Foundations of analytics in Excel: Use Excel to test relationships between variables and build compelling demonstrations of important concepts in statistics and analytics From Excel to R: Cleanly transfer what you've learned about working with data from Excel to R From Excel to Python: Learn how to pivot your Excel data chops into Python and conduct a complete data analysis

*Data Mining: Concepts and Techniques* SAGE Publications  
 Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred to as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

*Combining .NET, SharePoint, and Office 2010* World Scientific Publishing Company  
 For courses in Management Science, Quantitative Methods or Decision Models. This widely adopted text presents an accessible introduction to the techniques and applications of management science. It is designed to make the subject easy to understand, interesting and accessible for students with limited mathematical background or skills. The author focuses on management science not only as a collection of techniques and processes, but as a philosophy and method for approaching problems in a logical manner, and includes spreadsheets with solutions in every chapter.

*Pro SharePoint Solution Development* Apress  
 The market-leading textbook for the course, Winston's OPERATIONS RESEARCH owes much of its success to its practical orientation and consistent emphasis on model formulation and model building. It moves beyond a mere study of algorithms without sacrificing the rigor that faculty desire. As in every edition, Winston reinforces the book's successful features and coverage with the most recent developments in the field. The

Student Suite CD-ROM, which now accompanies every new copy of the text, contains the latest versions of commercial software for optimization, simulation, and decision analysis. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.  
*Cost of Capital* CRC Press

Written by Microsoft's own consulting team, this is the premier example-driven book for developing Office-based applications using SharePoint and .NET. It takes a practical problem/solution approach to common business challenges. You'll not only encounter interesting code samples, but also see how to combine these examples with the Microsoft collaboration platform's services. The book's solutions focus on using Visual Studio Tools for Office to build the user interface layer. In addition, solutions can interact with SharePoint as a service provider, taking advantage of SharePoint's many collaboration features.

**Spreadsheet Modeling, Analysis, and Application** [ ] [ ] [ ] [ ]  
 Since the late 1940s, linear programming models have been used for many different purposes. Airline companies apply these models to optimize their use of planes and staff. NASA has been using them for many years to optimize their use of limited resources. Oil companies use them to optimize their refinery operations. Small and medium-sized businesses use linear programming to solve a huge variety of problems, often involving resource allocation. In my study, a typical product-mix problem in a manufacturing system producing two products (each product consists of two sub-assemblies) is solved for its optimal solution through the use of the latest versions of MATLAB having the command `simlp`, which is very much like `linprog`. As analysts, we try to find a good enough solution for the decision maker to make a final decision. Our attempt is to give the mathematical description of the product-mix optimization problem and bring the problem into a form ready to call MATLAB's `simlp` command. The objective of this study is to find the best product mix that maximizes profit. The graph obtained using MATLAB commands, give the shaded area enclosed by the constraints called the feasible region, which is the set of points satisfying all the constraints. To find the optimal solution we look at the lines of equal profit to find the corner of the feasible region which yield the highest profit. This corner can be found out at the farthest line of equal profit, which still touches the feasible region. The most critical part is the sensitivity analysis, using Excel Solver, and Parametric Analysis, using computer software, which allows us to study the effect on optimal solution due to discrete and continuous change in parameters of the LP model including to identify bottlenecks. We have examined other options like product outsourcing, one-time cost, cross training of one operator, manufacturing of hypothetical third product on under-utilized machines and optimal sequencing of jobs on machines.  
*Spreadsheet Modeling and Applications* Cengage Learning  
 Decision Methods for Forest Resource Management focuses on decision making for forests that are managed for both ecological and economic objectives. The essential modern decision methods used in the scientific management of forests are described using basic algebra, computer spreadsheets, and numerous examples and applications. Balanced treatment is given throughout the book to the ecological and economic impacts of alternative management decisions in both even-aged and uneven-aged forests. \* In-depth coverage of both ecological and economic issues \* Hands-on examples with Excel spreadsheets; electronic versions available on the authors' website \* Many related exercises with solutions \* Instructor's Manual available upon request

*Combining .NET, SharePoint and Office 2007* Edward Elgar Publishing  
 Petroleum Production Engineering, Second Edition, updates both the new and veteran engineer on how to employ day-to-day production fundamentals to solve real-world challenges with modern technology. Enhanced to include equations and references with today's more complex systems, such as working with horizontal wells, workovers, and an entire new section of chapters dedicated to flow assurance, this go-to reference remains the most all-inclusive source for answering all upstream and midstream production issues. Completely updated with five sections covering the entire production spectrum, including well productivity, equipment and facilities, well stimulation and workover, artificial lift methods, and flow assurance, this updated edition continues to deliver the most practical applied production techniques, answers, and methods for today's production engineer and manager. In addition, updated Excel spreadsheets that cover the most critical production equations from the book are included for download. Updated to cover today's critical production challenges, such as flow assurance, horizontal and multi-lateral wells, and workovers Guides users from theory to practical application with the help of over 50 online Excel spreadsheets that contain basic production equations, such as gas lift potential, multilateral gas well deliverability, and production forecasting Delivers an all-inclusive product with real-

world answers for training or quick look up solutions for the entire petroleum production spectrum

*A Practical Introduction to Management Science* Morgan & Claypool Publishers

Gain a sound conceptual understanding of the role that management science plays in the decision-making process with the market leader that integrates the latest developments in Microsoft Office Excel 2016. The market-leading Anderson/Sweeney/Williams/Camm/Cochran/Fry/Ohlmann's AN INTRODUCTION TO MANAGEMENT SCIENCE: QUANTITATIVE APPROACHES TO DECISION MAKING, 15E uses a proven problem-scenario approach to introduce each quantitative technique within an applications setting. All data sets, applications, and screen visuals reflect the details of Excel 2016 to effectively prepare readers to work with the latest spreadsheet tools. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Principles, Practice and Economics of Plant and Process Design** Cengage Learning

Using the innovative approach and powerful examples that have become the signature of this longtime market leader, Brigham/Houston's FUNDAMENTALS OF FINANCIAL MANAGEMENT, 15e continues to equip learners with a thorough understanding of the what and the why of corporate finance and financial management. Its unique balance of clear concepts, contemporary theory, and practical applications ensures readers understand the concepts and reasons behind corporate budgeting, financing, working capital decision-making, forecasting, valuation, and Time Value of Money. The authors also provide authoritative insight into the federal debt, the ongoing recovery of financial markets, the European debt crisis, and more. In addition hands-on exercises enable learners to put what they learn into real-world practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Decision Methods for Forest Resource Management** John Wiley & Sons

Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design is one of the best-known and most widely adopted texts available for students of chemical engineering. The text deals with the application of chemical engineering principles to the design of chemical processes and equipment. The third edition retains its hallmark features of scope, clarity and practical emphasis, while providing the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards, as well as coverage of the latest aspects of process design, operations, safety, loss prevention, equipment selection, and more. The text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken), and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). Provides students with a text of unmatched relevance for chemical process and plant design courses and for the final year capstone design course Written by practicing design engineers with extensive undergraduate teaching experience Contains more than 100 typical industrial design projects drawn from a diverse range of process industries NEW TO THIS EDITION Includes new content covering food, pharmaceutical and biological processes and commonly used unit operations Provides updates on plant and equipment costs, regulations and technical standards Includes limited online access for students to Cost Engineering's Cleopatra Enterprise cost estimating software  
*Petroleum Production Engineering* Elsevier  
 Take full advantage of the power of spreadsheet modeling with the guidance in PRACTICAL MANAGEMENT SCIENCE, 6E, geared entirely to Excel 2016. This edition integrates modeling into all functional areas of business -- finance, marketing, operations management -- using real examples and real data. The book emphasizes applied, relevant learning while presenting the right amount of theory to ensure readers gain a strong foundation. Exercises offer practical, hands-on experience working with the methodologies. The authors focus on modeling rather than algebraic formulations or memorization of particular models. This edition provides new and updated cases as well as a new chapter on data mining. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Pro SharePoint 2010 Solution Development** Anchor Academic Publishing (aap\_verlag)

Render provides a modern, Excel-Based, and thoroughly Canadian introduction to management science concepts and techniques. This second edition has more fully integrated Canadian content than before and continues to be a perfect balance between decision modeling and the use of spreadsheets to set up and solve modeling problems.

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