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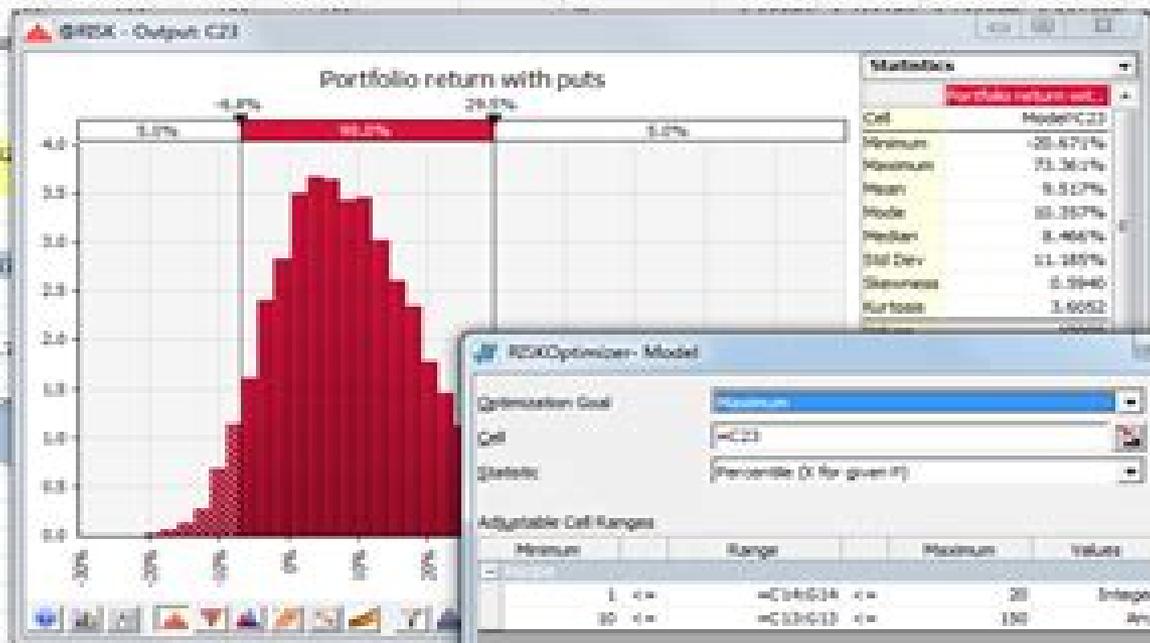
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C23 =RiskOutput("Portfolio return with puts")+(SUMPRODUCT(C14:G14,C22:G22)+SUMPRODUCT(I4:G4,C17:G17))/(SUMPRODUCT(C14:G14,C9:G9)+

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
2	Known inputs		Stock1	Stock2	Stock3	Stock4	Stock5									
3	Current stock price		\$25.47	\$33.42	\$92.97	\$41.33	\$17.48									
4	Shares purchased		1000	2000	1500	500	1500									
5	Time to hold (years)		0.5	0.5	0.5	0.5	0.5									
6	Mean annual growth rate		12.47%	24.14%	16.88%	22.54%	18.32%									
7	Annual volatility		25.34%	19.45%	29.74%	22.36%	22.06%									
8	Shares per put		100													
9	Price per put		\$88.23	\$88.23												
10	Risk free rate		3.50%													
11	Decision variables															
13	Exercise price of put		\$24.00	\$24.00												
14	Puts purchased		2													
16	Uncertain inputs															
17	Stock price at expiration		\$26.48	\$26.48												
19	Outputs															
20	Stock returns		4.74%	11.3%												
21	Portfolio return without puts		8.03%													
22	Put values at expiration		\$0.00													
23	Portfolio return with puts		7.36%													
25	Summary statistics without puts															
26	Mean portfolio return		9.92%													
27	Probability of positive return		80.09%													
28	VaR of portfolio return		-7.55%													
30	Summary statistics with puts															
31	Mean portfolio return		9.52%													
32	Probability of positive return		79.81%													
33	VaR of portfolio return		-6.84%													

Black-Scholes calculations for puts

	Stock1	Stock2	Stock3	Stock4	Stock5
d1	0.57891	0.575513	0.390036	0.459819	0.5126
d2					
N(d1)	0.71828	0.71828	0.65242	0.67452	0.69528
N(d2)					
N(-d1)	0.28172	0.28172	0.34758	0.32548	0.30472
N(-d2)					
Put Price	88.23	88.23	88.23	88.23	88.23



RISKOptimizer - Model

Optimization Goal: **Maximum**

Cell: **=C23**

Statistics: **Percentile (X for given P)** 5%

Adjustable Cell Ranges:

Minimum	Range	Maximum	Value	Int
1 <=	=C14:G14 <=	20	Integer	Delete
10 <=	=C17:G17 <=	100	Any	

Constraints:

Description	Formula	Type

Buttons: OK, Cancel

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Hongru Du



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Optimization Modeling with Spreadsheets Kenneth R. Baker, 2015-06-15 An accessible introduction to optimization analysis using spreadsheets Updated and revised *Optimization Modeling with Spreadsheets* Third Edition emphasizes model building skills in optimization analysis By emphasizing both spreadsheet modeling and optimization tools in the freely available Microsoft Office Excel Solver the book illustrates how to find solutions to real world optimization problems without needing additional specialized software The Third Edition includes many practical applications of optimization models as well as a systematic framework that illuminates the common structures found in many successful models With focused coverage on linear programming nonlinear programming integer programming and heuristic programming *Optimization Modeling with Spreadsheets* Third Edition features An emphasis on model building using Excel Solver as well as appendices with additional instructions on more advanced packages such as Analytic Solver Platform and OpenSolver Additional space devoted to formulation principles and model building as opposed to algorithms New end of chapter homework exercises specifically for novice model builders Presentation of the Sensitivity Toolkit for sensitivity analysis with Excel Solver

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Business Analytics Stephen G. Powell, Kenneth R. Baker, 2019-01-07 Now in its fifth edition Powell and Baker's *Business Analytics The Art of Modeling with Spreadsheets* provides students and business analysts with the technical knowledge and skill needed to develop real expertise in business modeling In this book the authors cover spreadsheet engineering management science and the modeling craft The brevity accessibility of this title offers opportunities to integrate other materials such as cases into the course It can be used in any number of courses or departments where modeling is a key skill

□□□□□□□□:□□□□□□ □□□□□□,2002 **Optimization Modeling with Spreadsheets, Second Edition** Kenneth Baker, 2011 Reflects the latest applied research and features state of the art software for building and solving spreadsheet optimization models Thoroughly updated to reflect the latest topical and technical advances in the field Optimization Modeling with Spreadsheets Second Edition continues to focus on solving real world optimization problems through the creation of mathematical models and the use of spreadsheets to represent and analyze those models Developed and extensively classroom tested by the author the book features a systematic approach that equips readers with the skills to apply optimization tools effectively without the need to rely on specialized algorithms This new edition uses the powerful software package Risk Solver Platform RSP for optimization including its Evolutionary Solver which employs many recently developed ideas for heuristic programming The author provides expanded coverage of integer programming and discusses linear and nonlinear programming using a systematic approach that emphasizes the use of spreadsheet based optimization tools The Second Edition also features Classifications for the various problem types providing the reader with a broad framework for building and recognizing optimization models Network models that allow for a more general form of mass balance A systematic introduction to Data Envelopment Analysis DEA The identification of qualitative patterns in order to meaningfully interpret linear programming solutions An introduction to stochastic programming and the use of RSP to solve problems of this type Additional examples exercises and cases have been included throughout allowing readers to test their comprehension of the material In addition a related website features Microsoft Office Excel files to accompany the figures and data sets in the book With its accessible and comprehensive presentation Optimization Modeling with Spreadsheets Second Edition is an excellent book for courses on deterministic models optimization and spreadsheet modeling at the upper

undergraduate and graduate levels The book can also serve as a reference for researchers practitioners and consultants working in business engineering operations research and management science **APICS, the Performance Advantage**, 2005 Spreadsheet Strategies for Optimal Management of a Dairy Plant Candelaria Barcenas, 1999 Geographic Information Systems in Water Resources Engineering Lynn E. Johnson, 2016-04-19 State of the art GIS spatial data management and analysis tools are revolutionizing the field of water resource engineering Familiarity with these technologies is now a prerequisite for success in engineers and planners efforts to create a reliable infrastructure GIS in Water Resource Engineering presents a review of the concepts and application **Proceedings of the XVI International symposium Symorg 2018** Nevenka Žarkić-Joksimović, Sanja Marinković, 2018-06-12 **Quantitative Business Modeling** Jack R. Meredith, Scott M. Shafer, Efraim Turban, 2002 Rather than giving instruction in models and solving problems this textbook focuses on the process of modeling and the use of models in analyzing various managerial situations The process of modeling is highly relevant to all business disciplines and is a critical skill for all professionals The emphasis of this text will be on the integration and development of modeling skills including problem recognition data collection model formulation analysis and communicating and implementing the results Selected Material from Spreadsheet Modeling and Decision Analysis Cliff T. Ragsdale, 1998 **Linear And Nonlinear Optimization Using Spreadsheets: Examples For Prescriptive, Predictive And Descriptive Analytics** Michael J Brusco, Stephanie Stahl, 2024-10-08 The use of spreadsheets to obtain solutions to a diverse array of examples offers a reader friendly way of addressing a topic optimization that can sometimes be viewed as intimidating Many people are readily familiar with spreadsheets and how they work yet are apt to be unaware of the incredible power of Excel for solving some rather complex optimization problems A major goal of the book is to sell readers on why it is so important to understand optimization and a large collection of examples for a wide range of business decision making areas e g production planning and scheduling workforce planning and scheduling location and supply chain distribution location of emergency services assembly line balancing vehicle routing project scheduling revenue management advertising product design payout schedules productivity measurement investment portfolio management sports league scheduling ranking models etc affords a practical mechanism for achieving that goal Another important contribution of the book is that it provides coverage of the mechanics of some common yet sophisticated statistical methods regression logistic regression discriminant analysis factor analysis and cluster analysis which are often opaque to many users of such methods **Introductory Management Science** Gary D. Eppen, 1998 This highly esteemed text introduces readers to the key ideas of modeling and management decision making that will be important to them throughout their careers Addressing the needs of readers interested in both business administration and decision science careers the book provides a conceptual foundation for all topics and the role of spreadsheet modeling techniques in the larger context of business decision making This text fully integrated Excel spreadsheets It is packaged with a free CD ROM which contains the student

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