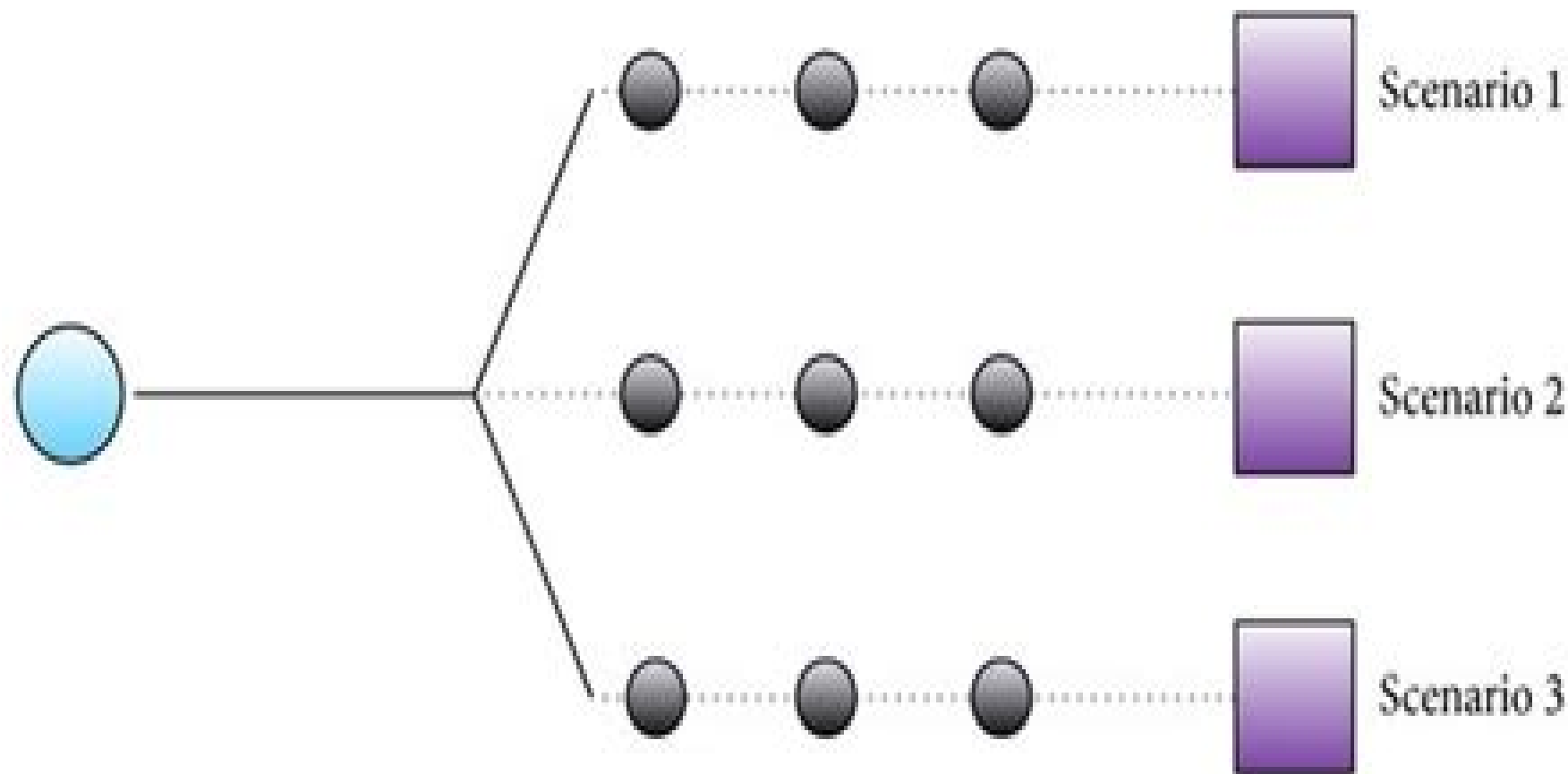




Stochastic Programming Excel

Adam Kolinski, Michał Adamczak



Stochastic Programming Excel:

A Sampling-based Stochastic Programming Approach to Water Resources Management ,2005 Optimization of Process Flowsheets through Metaheuristic Techniques José María Ponce-Ortega,Luis Germán Hernández-Pérez,2018-07-19 This textbook presents a general multi objective optimization framework for optimizing chemical processes by implementing a link between process simulators and metaheuristic techniques The proposed approach is general and shows how to implement links between different process simulators such as Aspen Plus HYSIS Super Pro Designer linked to a variety of metaheuristic techniques implemented in Matlab Excel C and others eliminating the numerical complications through the optimization process Furthermore the proposed framework allows the use of thermodynamic design and constitutive equations implemented in the process simulator to implement any process Aimed at graduate and undergraduate students it presents introductory chapters for process simulators and metaheuristic optimization techniques and provides several worked exercises as well as proposed exercises In addition accompanying tutorial videos clearly explaining the implemented methodologies are available online Also some Matlab routines are included as electronic supporting material Location Theory and Decision Analysis Yupo Chan,2011-08-26 Employing state of the art quantitative models and case studies Location Theory and Decision Analysis provides the methodologies behind the siting of such facilities as transportation terminals warehouses housing landfills state parks and industrial plants Through its extensive methodological review the book serves as a primer for more advanced texts on spatial analysis including the monograph on Location Transport and Land Use by the same author Given the rapid changes over the last decade the Second Edition includes new analytic contributions as well as software survey of analytics and spatial information technology While the First Edition served the professional community well the Second Edition has substantially expanded its emphasis for classroom use of the volume Extensive pedagogic materials have been added going from the fundamental principles to open ended exercises including solutions to selected problems The text is of value to engineering and business programs that offer courses in Decision and Risk Analysis Muticriteria Decision Making and Facility Location and Layout It should also be of interest to public policy programs that use geographic Information Systems and satellite imagery to support their analyses

Introduction to Software for Chemical Engineers Mariano Martín Martín,2025-03-24 The field of chemical engineering and its link to computer science is in constant evolution and engineers have an ever growing variety of tools at their disposal to tackle everyday problems Introduction to Software for Chemical Engineers Third Edition provides a quick guide to the use of various computer packages for chemical engineering applications It covers a range of software applications including Excel and general mathematical packages such as MATLAB MathCAD R and Python Coverage also extends to process simulators such as CHEMCAD HYSYS and Aspen equation based modeling languages such as gPROMS optimization software such as GAMS AIMS and Julia and specialized software like CFD or DEM codes The different packages

are introduced and applied to solve typical problems in fluid mechanics heat and mass transfer mass and energy balances unit operations reactor engineering and process and equipment design and control This new edition is updated throughout to reflect software updates and new packages It emphasizes the addition of SimaPro due to the importance of life cycle assessment as well as general statistics software SPSS and Minitab that readers can use to analyze lab data The book also includes new chapters on flowsheeting drawing process control and LOOP Pro as well as updates to include Pyomo as an optimization platform reflecting current trends The text offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems Written by leading experts this handbook is a must have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software Its user friendly approach to simulation and optimization as well as its example based presentation of the software makes it a perfect teaching tool for both undergraduate and graduate level readers *Livestock Ration*

Formulation for Dairy Cattle and Buffalo Ravinder Singh Kuntal,Radha Gupta,D. Rajendran,Vishal Patil,2022-04-22 *Livestock Ration Formulation for Dairy Cattle and Buffalo* provides an interdisciplinary integrative perspective and optimization on dairy cattle feed formulation problem solving It helps dairy farmers by introducing them the right frequency and right amount of balanced diet to be fed to cattle s and buffaloes at different body condition so that their feeding cost should be decreased and there should be increase in income for dairy farmers as they don t have enough knowledge of feeding practice It helps animal nutritionist to work for dairy farmers which have very limited feed resources to fulfil nutrients requirement in terms of crude protein CP total digestible nutrient TDN calcium Ca and phosphorus P by developing a software programme to plan a balanced low budget diet It includes the Linear and Goal programming model for non pregnant dairy buffalo is been solved using Hybrid Real Coded Genetic Algorithm and the results are compared with Real Coded Genetic Algorithm RGA considering different versions like RGA without crossover RGA without Mutation RGA with crossover and mutation These models can also be applied with other nutritional models like CNCPS INRA This book is a step forward in that direction to provide least cost diet formulation based on nutrient requirement of the cattle and buffalo which is been calculated according to Indian Council of Agricultural Research ICAR 2013 and NRC 2001 on dry matter basis provides a clear and precise platform for other researcher in Animal Nutrition field which also give initial platform to build a software and android application to formulate least cost ration Based on data and algorithm used in this book which helps Dairy farmers directly to feed balanced diet at cheap rate Features It is a good reference to local dairy farmers by introducing them to the right frequency and right amount of balanced diet to be fed to cattle and buffaloes at different production cycles It will provide basic platform and some solutions to built up software about cattle nutrition development and least cost formulation for end user It has several techniques for optimizing animal diet formulation but a good balance between coding programming and animal nutrition is incorporated towards application of soft computing technique to improve the quality of the solution due to

rigidity of the constraints

Introduction to Software for Chemical Engineers, Second Edition Mariano Martín

Martín, 2019-06-06 The field of Chemical Engineering and its link to computer science is in constant evolution and new engineers have a variety of tools at their disposal to tackle their everyday problems. Introduction to Software for Chemical Engineers, Second Edition, provides a quick guide to the use of various computer packages for chemical engineering applications. It covers a range of software applications from Excel and general mathematical packages such as MATLAB and MathCAD to process simulators CHEMCAD and ASPEN, equation-based modeling languages gProms, optimization software such as GAMS and AIMS, and specialized software like CFD or DEM codes. The different packages are introduced and applied to solve typical problems in fluid mechanics, heat and mass transfer, mass and energy balances, unit operations, reactor engineering, process and equipment design, and control. This new edition offers a wider view of packages including open source software such as R, Python, and Julia. It also includes complete examples in ASPEN. Plus, it adds ANSYS Fluent to CFD codes, Lingo to the optimization packages, and discusses Engineering Equation Solver. It offers a global idea of the capabilities of the software used in the chemical engineering field and provides examples for solving real world problems. Written by leading experts, this book is a must-have reference for chemical engineers looking to grow in their careers through the use of new and improving computer software. Its user-friendly approach to simulation and optimization, as well as its example-based presentation of the software, makes it a perfect teaching tool for both undergraduate and master levels.

Digitalisation of the Greening Supply Chain Adam Kolinski, Michał Adamczak, 2025-06-14

This book includes in-depth discussions on practical aspects of digitalisation of supply chains and covers a variety of actionable digitisation tools. The academic literature points to a serious lack of precision in the scope that the digitalisation of business processes should address. Studies on the digitalisation of businesses have pointed to the fragmented nature of their coverage and the lack of a comprehensive approach to the research conducted in this area. Digital transformation is described in academic and specialist literature as the integration of digital technology into all areas of business, which in turn is causing fundamental changes in the way a company delivers its services and business activities, cultural changes, and a change from traditional business processes to new innovative practices and solutions that are having an impact on the greening supply chains. It is important to note that digital transformation involves the introduction of innovation and new business models incorporating the computerisation of resources, supply chain visibility, and increasing the use of technology to improve the experience of employees, customers, suppliers, partners, and supply chain stakeholders. Digitisation is a business trend that is becoming increasingly important. Books on this subject that have been published in recent years deal with the issue on a fragmented basis. It is not possible to find a publication that comprehensively presents opportunities for the digitisation of supply chains through the computerisation and standardisation of information flows, the integration of IT systems in supply chains, and the application of modern technologies and innovations. Only the synergy of these three aspects allows for the full digitalisation.

of greening supply chains The book is an excellent material for both theoreticians and practitioners Theoreticians will find inspiring research results in a very narrow thematic scope which is also dynamically developing *The Stochastic Programming Approach to Asset, Liability, and Wealth Management* W. T. Ziemba, 2003 **Designing Value-Creating Supply Chain Networks** Alain Martel, Walid Klibi, 2016-03-30 Winner of the 2016 Coup de Coeur prize at the Plumes des Achats location capacity and mission of supply chain facilities plants distribution centers as well as the network structure required to provide flexibility and resilience in an uncertain world this book presents an innovative methodology for SCN reengineering that can be used to significantly improve the bottom line of supply chain dependent businesses Providing readers with the tools needed to analyze and model value creation activities Designing Value Creating Supply Chain Networks examines the risks faced by modern supply chains and shows how to develop plausible future scenarios to evaluate potential SCN designs The design methods proposed are based on a visual representation formalism that facilitates the analysis and modeling of SCN design problems book chapters incorporate several example problems and exercises which can be solved with Excel tools Analysis tools and Solver or with commercial statistical and optimization software

Introduction to Applied Optimization Urmila Diwekar, 2013-03-09 Provides well written self contained chapters including problem sets and exercises making it ideal for the classroom setting Introduces applied optimization to the hazardous waste blending problem Explores linear programming nonlinear programming discrete optimization global optimization optimization under uncertainty multi objective optimization optimal control and stochastic optimal control Includes an extensive bibliography at the end of each chapter and an index GAMS files of case studies for Chapters 2 3 4 5 and 7 are linked to <http://www.springer.com/math/book/9780387766348> Solutions manual available upon adoption Introduction to Applied Optimization is intended for advanced undergraduate and graduate students and will benefit scientists from diverse areas including engineers **Cause and Effect Business Analytics and Data Science** Dominique Haughton, Jonathan Haughton, Victor S. Y. Lo, 2025-07-15 Among the most important questions that businesses ask are some very simple ones If I decide to do something will it work And if so how large are the effects To answer these predictive questions and later base decisions on them we need to establish causal relationships Establishing and measuring causality can be difficult This book explains the most useful techniques for discerning causality and illustrates the principles with numerous examples from business It discusses randomized experiments aka A B testing and techniques such as propensity score matching synthetic controls double differences and instrumental variables There is a chapter on the powerful AI approach of Directed Acyclic Graphs aka Bayesian Networks another on structural equation models and one on time series techniques including Granger causality At the heart of the book are four chapters on uplift modeling where the goal is to help firms determine how best to deploy their resources for marketing or other interventions We start by modeling uplift discuss the test and learn process and provide an overview of the prescriptive analytics of uplift The book is written in an accessible

style and will be of interest to data analysts and strategists in business to students and instructors of business and analytics who have a solid foundation in statistics and to data scientists who recognize the need to take seriously the need for causality as an essential input into effective decision making Real Options Analysis Johnathan Mun, 2012-07-02 Mun demystifies

real options analysis and delivers a powerful pragmatic guide for decision makers and practitioners alike Finally there is a book that equips professionals to easily recognize value and seize real options in the world around them Jim Schreckengast Senior VP R the methods used in solving real options why and when they are used and the applicability of these methods in decision making **Lean and Green Supply Chain Management** Turan Paksoy, Gerhard-Wilhelm Weber, Sandra

Huber, 2018-11-11 This book presents the latest developments in optimization and optimal control models exact approximate and hybrid methods and their applications in lean and green supply chains It examines supply chain network design and modeling closed loop supply chains and lean green resilient and agile or responsive networks and also discusses corporate social responsibility and occupational health and safety It particularly focuses on supply chain management under uncertainty employing stochastic or nonlinear modeling simulation based studies and optimization multi criteria decision making and applications of fuzzy set theory and covers various aspects of supply chain management such as risk management supplier selection or the design of automated warehouses Lastly using experimental applications and practical case studies it shows the impact of lean and green applications on vehicle fleet management and operations management

Optimization Modeling with Spreadsheets Kenneth R. Baker, 2012-01-10 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

How to Solve Real-world Optimization Problems Eugene J. Zak, 2024-03-01 Written by an experienced operations research practitioner with a strong applied mathematics background this book offers practical insights into how to approach optimization problems how to develop intelligent and efficient mathematical models and algorithms and how to implement and deliver software products to customers With a focus on revealing the similarities and differences between academia and industry in mathematical modeling the book provides useful tips and advice based on the author's extensive experience as a principal developer working to solve real world optimization problems for several major high tech companies The book offers valuable food for thought for researchers and practical guidance for graduate students preparing for their future projects in the industry It is also an essential resource for practitioners working in the industrial business and service sectors

Introduction to Applied Optimization Urmila M. Diwekar, 2020-10-29 Provides well written self contained chapters including problem sets and exercises making it ideal for the classroom setting Introduces applied optimization to the hazardous waste blending problem Explores linear programming nonlinear programming discrete optimization global optimization optimization under uncertainty multi objective optimization optimal control and stochastic optimal control Includes an extensive bibliography at the end of each chapter and an index GAMS files of case studies for Chapters 2 3 4 5 and 7 are linked to <http://www.springer.com/math/book/9780387766348> Solutions manual available upon adoption

Data Science for Mathematicians Nathan Carter, 2020-09-15 Mathematicians have skills that if deepened in the right ways would enable them to use data to answer questions important to them and others and report those answers in compelling ways Data science combines parts of mathematics statistics computer science Gaining such power and the ability to teach has reinvigorated the careers of mathematicians This handbook will assist mathematicians to better understand the opportunities presented by data science As it applies to the curriculum research and career opportunities data science is a fast growing field Contributors from both academics and industry present their views on these opportunities and how to advantage them

Metaheuristics in Water, Geotechnical and Transport Engineering Xin-She Yang, Amir Hossein Gandomi, Siamak Talatahari, Amir Hossein Alavi, 2012-09 Due to an ever decreasing supply in raw materials and stringent constraints on conventional energy sources demand for lightweight efficient and low cost structures has become crucially important in modern engineering design This requires engineers to search for optimal and robust design options to address design problems that are often large in scale and highly nonlinear making finding solutions challenging In the past two decades metaheuristic algorithms have shown promising power efficiency and versatility in solving these difficult

optimization problems This book examines the latest developments of metaheuristics and their applications in water geotechnical and transport engineering offering practical case studies as examples to demonstrate real world applications Topics cover a range of areas within engineering including reviews of optimization algorithms artificial intelligence cuckoo search genetic programming neural networks multivariate adaptive regression swarm intelligence genetic algorithms ant colony optimization evolutionary multiobjective optimization with diverse applications in engineering such as behavior of materials geotechnical design flood control water distribution and signal networks This book can serve as a supplementary text for design courses and computation in engineering as well as a reference for researchers and engineers in metaheuristics optimization in civil engineering and computational intelligence Provides detailed descriptions of all major metaheuristic algorithms with a focus on practical implementation Develops new hybrid and advanced methods suitable for civil engineering problems at all levels Appropriate for researchers and advanced students to help to develop their work

Advanced Analytics in Mining Engineering Ali Soofastaei, 2022-02-23 In this book Dr Soofastaei and his colleagues reveal how all mining managers can effectively deploy advanced analytics in their day to day operations one business decision at a time Most mining companies have a massive amount of data at their disposal However they cannot use the stored data in any meaningful way The powerful new business tool advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results From statistical analysis to machine learning and artificial intelligence the authors show how many analytical tools can improve decisions about everything in the mine value chain from exploration to marketing Combining the science of advanced analytics with the mining industrial business solutions introduce the *Advanced Analytics in Mining Engineering* Book as a practical road map and tools for unleashing the potential buried in your company's data The book is aimed at providing mining executives managers and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value cost and risk of potential analytical solutions In addition the book will provide the next generation of miners undergraduate and graduate IT and mining engineering students with an understanding of data analytics applied to the mining industry By providing a book with chapters structured in line with the mining value chain we will provide a clear enterprise level view of where and how advanced data analytics can best be applied This book highlights the potential to interconnect activities in the mining enterprise better Furthermore the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain in line with the emerging vision of creating a digital mine with much enhanced capabilities for modeling simulation and the use of digital twins in line with leading digital industries

Analytics for Smart Energy Management Seog-Chan Oh, Alfred J. Hildreth, 2016-04-15 This book introduces the issues and problems that arise when implementing smart energy management for sustainable manufacturing in the automotive manufacturing

industry and the analytical tools and applications to deal with them It uses a number of illustrative examples to explain energy management in automotive manufacturing which involves most types of manufacturing technology and various levels of energy consumption It demonstrates how analytical tools can help improve energy management processes including forecasting consumption and performance analysis emerging new technology identification as well as investment decisions for establishing smart energy consumption practices It also details practical energy management systems making it a valuable resource for professionals involved in real energy management processes and allowing readers to implement the procedures and applications presented

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