

EIGHTH EDITION

8

Spreadsheet Modeling and Decision Analysis

A Practical Introduction to Business Analytics



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Spreadsheet Modeling Decision Analysis A Practical Introduction To Management Science Pdf

Maria R. Kosseva, Colin Webb



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Food Industry Wastes Maria R. Kosseva, Colin Webb, 2020-08-02 Food Industry Wastes Assessment and Recuperation of Commodities Second Edition presents a multidisciplinary view of the latest scientific and economic approaches to food waste management novel technologies and treatment their evaluation and assessment It evaluates and synthesizes knowledge in the areas of food waste management processing technologies environmental assessment and wastewater cleaning Containing numerous case studies this book presents food waste valorization via emerging chemical physical and biological methods developed for treatment and product recovery This new edition addresses not only recycling trends but also innovative strategies for food waste prevention The economic assessments of food waste prevention efforts in different countries are also explored This book illustrates the emerging environmental technologies that are suitable for the development of both sustainability of the food systems and a sustainable economy So this volume is a valuable resource for students and professionals including food scientists bio process engineers waste managers environmental scientists policymakers and food chain supervisors Provides guidance on current regulations for food process waste and disposal practices Highlights novel developments needed in policy making for the reduction of food waste Raises awareness of the sustainable food waste management techniques and their appraisal through Life Cycle Assessment Explores options for reducing food loss and waste along the entire food supply chain

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Risk Assessment Methods for Biological and Chemical Hazards in Food Fernando Pérez-Rodríguez, 2020-10-28 Risk assessment has been extensively developed in several scientific fields such as environmental science economics and civil engineering among others In the aftermath of the SPS and GATT agreements on the use of risk analysis framework in food trade signed in the 1990s international organisations and governments adopted risk assessment as a science based process to ensure food safety along the food chain The food industry can also benefit from the use of this approach for food process optimisation and quality assurance Risk Assessment Methods for Biological and Chemical Hazards in Food introduces the reader to quantitative risk assessment methods encompassing general concepts to specific applications to biological and chemical hazards in foods In the first section the book presents food risk assessment as methodology and addresses more specifically new trends and approaches such as the development of risk rating methods risk metrics risk benefit assessment studies and quality assessment methods Section II is dedicated to biological hazards This section identifies the most relevant biological hazards along the food chain and provides an overview on the types of predictive microbiology models used to describe the microbial response along the food chain Chapter 12 specifically deals with cross contamination and the quantitative methods that can be applied to describe this relevant microbial process The development and application of dose response models i e mathematical function describing the relationship between pathogen dose and health response are also covered in this section In Section III the book translates risk assessment

concepts into the area of chemical hazards defining the process steps to determine chemical risk and describing the uncertainty and variability sources associated with chemicals Key Features Presents new trends and approaches in the field of risk assessment in foods Risk assessment concepts are illustrated by practical examples in the food sector Discusses how quantitative information and models are integrated in a quantitative risk assessment framework Provides examples of applications of quantitative chemical risk assessment in risk management The book written by renowned experts in their field is a comprehensive collection of quantitative methods and approaches applied to risk assessment in foods It can be used as an extensive guide for food safety practitioners and researchers to perform quantitative risk assessment in foods

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