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basic dea models measure specific dea models returns to scale dea with preference modeling undesirable measures context dependent data envelopment analysis benchmarking models models for evaluating value chains congestion super efficiency sensitivity analysis and its uses dea excel solver managers are often under great pressure to improve the performance of their organizations to improve performance one needs to constantly evaluate operations or processes related to producing products providing services and marketing and selling products performance evaluation and benchmarking are a widely used method to identify and adopt best practices as a means to improve performance and increase productivity and are particularly valuable when no objective or engineered standard is available to define efficient and effective performance for this reason benchmarking is often used in managing service operations because service standards benchmarks are more difficult to define than manufacturing standards benchmarks can be established but they are somewhat limited as they work with single measurements one at a time it is difficult to evaluate an organization's performance when there are multiple inputs and outputs to the system the difficulties are further enhanced when the relationships between the inputs and the outputs are complex and involve unknown tradeoffs it is critical to show benchmarks where multiple measurements exist the current book introduces the methodology of data envelopment analysis dea and its uses in performance evaluation and benchmarking under the context of multiple performance measures cd rom contains crystal ball 2000 2 professional student edition problemsolver for education v 5 tree plan vl 64 and manual and data files for examples cases and projects used alongside the students text btec first in ict for practitioners this pack offers an essential suite of photocopiable handouts with student activities and case studies for the compulsory core units and selected specialist units of the 2006 btec first in ict for practitioners schemes from edexcel full coverage is given to the core units of the certificate and diploma units 1 and 2 and to the selected specialist units covered in the textbook using ict to present information unit 1 introduction to computer systems unit 2 website development unit 4 networking essentials unit 6 database software unit 9 spreadsheet software unit 10 ict graphics unit 18 in addition the ict project unit 3 is supported with handouts with activities to guide students through project planning and problem solving techniques also available in electronic form on the cd rom this pack will save teachers and course teams many hours work preparing handouts and assignments and is freely photocopiable within the purchasing institution the cd rom also

contains selected illustrations from the textbooks for lecturers to use in their own presentations and handouts sharon yull is a senior lecturer at city college norwich and a senior subject examiner for higher nationals in computing for edexcel sharon also runs the training and education company an it and education consultancy and has written books for other btec it qualifications revise your game plan and profit from the change if you need the best practices and ideas for creating business models that drive growth but don t have time to find them this book is for you here are 10 inspiring and useful perspectives all in one place this collection of hbr articles will help you reinvent your business profitably set your model up for success with a winning competitive strategy test and change your assumptions about customers spot trends that could transform your business exploit disruptive technologies give traditional offerings a shot in the arm produce game changers for your industry or market build a new business in an established organization incorporating legislative and syllabus changes this edition maintains the popular loose leaf format and contains practice questions throughout revision section topic summaries recommended reading articles from a range of journals and more the work system method is an organized approach that every organization can use for recognizing that systems involve much more than it describing and understanding systems from a business viewpoint analyzing and improving systems improving communication between business and it professionals increasing the likelihood of successful implementation understanding the role and limitations of it the ability to create and understand financial models that assess the valuation of a company the projects it undertakes and its future earnings profit projections is one of the most valued skills in corporate finance however while many business professionals are familiar with financial statements and accounting reports few are truly proficient at building an accurate and effective financial model from the ground up that s why in the financial modeling handbook jack avon equips financial professionals with all the tools they need to precisely and effectively monitor a company s assets and project its future performance based on the author s extensive experience building models in business and finance and teaching others to do the same the handbook of financial modeling takes readers step by step through the financial modeling process starting with a general overview of the history and evolution of financial modeling it then moves on to more technical topics such as the principles of financial modeling and the proper way to approach a financial modeling assignment before covering key application areas for modeling in microsoft excel designed for intermediate and advanced modelers who wish to expand and enhance their knowledge the handbook of financial modeling also covers the accounting and finance concepts that underpin working financial models how to approach financial issues and solutions from a modeler s perspective the importance of thinking about end users when developing

a financial model how to plan design and build a fully functional financial model and more a nuts to bolts guide to solving common financial problems with spreadsheets the handbook of financial modeling is a one stop resource for anyone who needs to build or analyze financial models what you ll learn key financial modeling principles including best practices principles around calculations and the importance of producing clean clear financial models how to design and implement a projection model that allows the user to change inputs quickly for sensitivity testing the proper way to approach a financial modeling assignment from project planning all the way through to the documentation of the model s findings and effectiveness how to model in microsoft excel including how to set up an excel environment how to format worksheets and the correct application of various modeling formulae the skills and knowledge they need to become more proficient financial modelers and differentiate themselves from their professional competitors who this book is for written in a clear concise manner and filled with screen grabs that will facilitate readers comprehension of the financial modeling process the handbook of financial modeling is appropriate for intermediate to advanced financial modelers who are looking to learn how to enhance their modeling proficiency table of contents financial modeling an overview financial modeling best practices modeling functions and tools planning your model testing and documenting your model designing and building your model the model user inputs an introduction to finance and accounting for modelers managing and evaluating a business for modelers the implications and rules of accounting for modelers financial based calculations logical and structural based calculations how to capture document and track assumptions in your model modeling to give the user transparency model testing and auditing modeling handover dos and don ts case study building a full life cycle model additional tools and vba for financial models what is the future of financial modeling keyboard shortcuts finance and accounting glossary readymade functions sample outputs housekeeping references the book and accompanying disk use the capabilities of electronic spreadsheet programs to provide 19 spreadsheet models that can be used for a wide range of urban and regional analysis and planning applications the models have been developed for lotus 1 2 3 version 1 00 for the ibm personal computer and compatible systems and can be adapted for use with other spreadsheet programs practical financial modelling 3e is a book on model development and model assurance it enhances the modelling process by emphasizing controls and checks for accuracy and reliability new content on validation and verification model use and sensitivity analysis is presented alongside a modelling methodology that underpins the various proprietary standards used in financial modelling today it provides more details than other books and yet is general enough for applying its methodology to many applications this book isn t just about the details of building cash flow models it s

about building better cash flow models this new edition increases the number of worked examples and introduces new material on the audit sheet and audit workbook methodologies and the delta sheet approach to sensitivity analysis it provides the developer with a toolkit of modelling techniques and a framework of error controls to reduce the risk of spreadsheet error the methodology and structure conforms with the modelling principles defined by the institute of chartered accountants of england and wales and the model assurance processes ensure compliance with the uk public sector macpherson report and regulatory requirements such as sarbanes oxley constructing the infrastructure for the knowledge economy methods and tools theory and practice is the proceedings of the 12th international conference on information systems development held in melbourne australia august 29 31 2003 the purpose of these proceedings is to provide a forum for research and practice addressing current issues associated with information systems development isd isd is undergoing dramatic transformation every day new technologies applications and methods raise the standards for the quality of systems expected by organizations as well as end users all are becoming more dependent on the systems reliability scalability and performance thus it is crucial to exchange ideas and experiences and to stimulate exploration of new solutions this proceedings provides a forum for just that addressing both technical and organizational issues this book constitutes the thoroughly refereed proceedings of the third international conference on data technologies and applications data 2014 held in vienna austria in august 2014 the 12 revised full papers were carefully reviewed and selected from 87 submissions the papers deal with the following topics databases data warehousing data mining data management data security knowledge and information systems and technologies advanced application of data this book provides for the first time an overview on the current approaches and applications of energy aspects in production and logistics by the use of simulation techniques during the last decade the importance of energy in the material flow processes has become more and more important the pressure to reduce the environmental footprint of production and logistics systems will even intensify in future therefore enterprises have started to integrate the use of energy into their planning processes much more than before even designing feedback loops e g from energy control to production control this receives additional attention with the increasing use of renewable but less reliable energy sources care must be taken to establish processes that aim to use energy when it is available as an example many industrial processes like melting or coating have significant energy demands but could vary the point of time of its consumption within specific limits leading to a very high complexity it discusses the construction and application of energy specific performance indicators and analyzes the input information that needs to be acquired before implementing suitable models on this

basis concrete technical solutions are introduced in the current volume consisting of parts a and b edited versions of most of the papers presented at the annual review of progress in quantitative nondestructive evaluation held at bowdoin college brunswick maine on july 28 august 2 1991 have been collected the review was organized by the center for nde at iowa state university and the ames laboratory of the usdoe in cooperation with a number of organizations including the air force materials directorate wright laboratory wright patterson air force base the american society for nondestructive testing the center for nde at johns hopkins university department of energy federal aviation administration national institute of standards and technology national science foundation industryuniversity cooperative research centers and the office of naval research the 1991 review of progress in qnde was attended by approximately 450 participants from the us and many foreign countries who presented over 360 papers divided into 36 sessions with as many as four sessions running concurrently the meeting covered all phases of nde development from basic research to engineering applications and all methods of inspection science from acoustics to x rays over the past ten years the participants of the review have seen it grow into one of the largest and most significant gatherings of nde researchers and engineers anywhere in the world by sharing their work at this conference they deserve much credit for its success project management bootcamp is a pragmatic guide for those who need to understand how to deliver projects successfully the reader journeys through a project stage by stage discovering what project managers commonly need to achieve at each step each step is supported by tables charts tips and tools which readers may adopt or adapt to their needs and different ways of organising and delivering projects including agile approaches are considered because theory can only get you so far a key element of the book is learning from real projects drawing on the experience of project managers working across three continents each chapter ends with challenges to readers to reflect on their learning which can be based on a theoretical case study or their own project the result is a reflective framework that charts their learning and their project management journey from initiation to closure project management bootcamp is essential reading for junior and mid level career project managers as well as any professionals who finds themselves in charge of a project and are unsure how to get the best result students in business and management courses at undergraduate and postgraduate levels will also value its setting of theory into a practical context the interface between the user of a computer based information system and the system itself has been evolving at a rapid rate the use of a video screen with its color and graphics capabilities has been one factor in this evolution the development of light pens mice and other screen image manipulation devices has been another with these capabilities has come a natural desire to find more effective ways to make use of them in particular

much work has gone into the development of interface systems that add visual elements such as icons and graphics to text the desire to use these visual elements effectively in communication between the user and the system has resulted in a healthy competition of ideas and discussion of the principles governing the development and use of such elements the present volume chronicles some of the more significant ideas that have recently been presented the first volume in this series on the subject visual languages chang ichikawa and ligomenides eds plenum 1986 covered work done in the early days of the field of visual languages here we represent ideas that have grown out of that early work arranged in six sections theory design systems visual programming algorithm animation simulation animation and applications i theory fundamental to the concept of visual languages is the conviction that diagrams and other visual representations can aid understanding and communication of ideas we begin this volume with a chapter by fanya s watershed modeling is at the heart of modern hydrology supplying rich information that is vital to addressing resource planning environmental and social problems even in light of this important role many books relegate the subject to a single chapter while books devoted to modeling focus only on a specific area of application recognizing the 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 a properly structured financial model can provide decision makers with a powerful planning tool that helps them identify the consequences of their decisions before they are put into practice introduction to financial models for management and planning second edition enables professionals and students to learn how to develop and use computer based models for financial planning this volume provides critical tools for the financial toolbox then shows how to use them tools to build successful models decision making is a process of choosing from possible courses of action in order to attain goals and objectives nobel laureate herbert simon wrote that the whole process of managerial decision making is synonymous with the practice of management decision making is at the core of all managerial functions planning for example involves the following decisions what should be done when how where by whom other managerial functions such as organizing implementing and controlling rely heavily on decision making decision by objectives is an invaluable book about the art and science of decision making it presents a very practical approach to decision making that has a sound theoretical foundation known as the analytic hierarchy process intended for both the student and the professional the book includes approaches to prioritizing evaluating alternative courses of action forecasting and allocating resources by focusing on objectives rather than alternatives alone it shows the reader how to synthesize information from multiple sources analyses and perspectives the methods presented have been gaining popularity throughout the world this book constitutes the thoroughly refereed proceedings of the 4th ibero american congress icsc cities 2021 held in cancun mexico in november december 2021 due to the covid 19 pandemic the conference was partially held online the 21 full papers and one short paper presented were carefully reviewed and selected from 112 submissions the papers are organized in topical sections on computational intelligence for smart cities urban informatics internet of things smart energy and smart grid in spain as in most countries the real obstacle to effective and efficient delivery of key infrastructure is not the availability of finance but rather problems of governance this review examines the transport infrastructure governance framework in spain against oecd good practices it identifies the main governance bottlenecks for the development of transport infrastructure projects and provides a comparison with what other countries have done to alleviate similar bottlenecks managing today s lands is becoming an increasingly difficult task complex

ecological interactions across multiple spatiotemporal scales create diverse landscape responses to management actions that are often novel counter intuitive and unexpected to make matters worse exotic invasions human land use and global climate change complicate this complexity and make past observational ecological studies limited in application to the future natural resource professionals can no longer rely on empirical data to analyze alternative actions in a world that is rapidly changing with few historical analogs new tools are needed to synthesize the high complexity in ecosystem dynamics into useful applications for land management some of the best new tools available for this task are ecological and landscape simulation models however many land management professionals and scientists have little expertise in simulation modeling and the costs of training these people will probably be exorbitantly high because most ecosystem and landscape models are exceptionally complicated and difficult to understand and use for local applications this book was written to provide natural resource professionals with the rudimentary knowledge needed to properly use ecological models and then to interpret their results it is based on the lessons learned from a career spent modeling ecological systems it is intended as a reference for novice modelers to learn how to correctly employ ecosystem landscape models in natural resource management applications and to understand subsequent modeling results competence in investment analysis is now a basic requirement for most practicing managers engineers and financial analysts in order to avoid possible serious mistakes arising from flawed or inadequate knowledge of the discipline furthermore individuals who make decisions based on technical economics stake their professional futures in many cases on the accuracy of such evaluations the aim of this volume is to provide a balanced view of the essential components of economic and financial analysis including 1 strategic and design issues 2 principles of cost management systems and activity based costing and 3 tools for developing the financial measures of investment worth with advanced topics and case studies in these three areas this volume provides a refreshing insight into the various methods that engineers managers and financial analysts may need to consider to find good alternatives for the investment of scarce resources not only are new ventures presented but also improvements within existing facilities that include process modification product design equipment replacement and plant expansion contraction health care systems are complex and as a result it is often unclear what the effects of changes in policy or service provision might be at the same time resources for health care tend to be in short supply which means that public health practitioners have to make difficult decisions this book describes the quantitative and qualitative methods that can help decision makers to structure and clarify difficult problems and to explore the implications of pursuing different options the accompanying cd rom provides the opportunity to

try out some of the proposed solutions the book examines models and decision making in health care methods for clarifying complex decisions models for service planning and resource allocation modelling for evaluating changes in systems series editors rosalind plowman and nicki thorogood present the full range of analytics from descriptive and predictive to prescriptive analytics with camm cochran fry ohlmann s market leading business analytics 4e clear step by step instructions teach students how to use excel tableau r and jmp pro to solve more advanced analytics concepts as instructor you have the flexibility to choose your preferred software for teaching concepts extensive solutions to problems and cases save grading time while providing students with critical practice this edition covers topics beyond the traditional quantitative concepts such as data visualization and data mining which are increasingly important in today s analytical problem solving in addition mindtap and webassign customizable digital course solutions offer an interactive ebook auto graded exercises from the printed book algorithmic practice problems with solutions and exploring analytics visualizations to strengthen students understanding of course concepts

Quantitative Models for Performance Evaluation and Benchmarking 2003

basic dea models measure specific dea models returns to scale dea with preference modeling undesirable measures context dependent data envelopment analysis benchmarking models models for evaluating value chains congestion super efficiency sensitivity analysis and its uses dea excel solver

Quantitative Models for Performance Evaluation and Benchmarking 2008-10-20

managers are often under great pressure to improve the performance of their organizations to improve performance one needs to constantly evaluate operations or processes related to producing products providing services and marketing and selling products performance evaluation and benchmarking are a widely used method to identify and adopt best practices as a means to improve performance and increase productivity and are particularly valuable when no objective or engineered standard is available to define efficient and effective performance for this reason benchmarking is often used in managing service operations because service standards benchmarks are more difficult to define than manufacturing standards benchmarks can be established but they are somewhat limited as they work with single measurements one at a time it is difficult to evaluate an organization's performance when there are multiple inputs and outputs to the system the difficulties are further enhanced when the relationships between the inputs and the outputs are complex and involve unknown tradeoffs it is critical to show benchmarks where multiple measurements exist the current book introduces the methodology of data envelopment analysis dea and its uses in performance evaluation and benchmarking under the context of multiple performance measures

Spreadsheet Modeling & Decision Analysis 2004

cd rom contains crystal ball 2000 2 professional student edition problemsolver for education v 5 tree plan vl 64 and manual and data files for examples cases and projects

BTEC First ICT Practitioners Curriculum Support Pack 2009-10-26

used alongside the students text btec first in ict for practitioners this pack offers an essential suite of photocopiable handouts with

student activities and case studies for the compulsory core units and selected specialist units of the 2006 btec first in ict for practitioners schemes from edexcel full coverage is given to the core units of the certificate and diploma units 1 and 2 and to the selected specialist units covered in the textbook using ict to present information unit 1 introduction to computer systems unit 2 website development unit 4 networking essentials unit 6 database software unit 9 spreadsheet software unit 10 ict graphics unit 18 in addition the ict project unit 3 is supported with handouts with activities to guide students through project planning and problem solving techniques also available in electronic form on the cd rom this pack will save teachers and course teams many hours work preparing handouts and assignments and is freely photocopyable within the purchasing institution the cd rom also contains selected illustrations from the textbooks for lecturers to use in their own presentations and handouts sharon yull is a senior lecturer at city college norwich and a senior subject examiner for higher nationals in computing for edexcel sharon also runs the training and education company an it and education consultancy and has written books for other btec it qualifications

Columbia River System Operation Review (SOR) **1996**

revise your game plan and profit from the change if you need the best practices and ideas for creating business models that drive growth but don't have time to find them this book is for you here are 10 inspiring and useful perspectives all in one place this collection of hbr articles will help you reinvent your business profitably set your model up for success with a winning competitive strategy test and change your assumptions about customers spot trends that could transform your business exploit disruptive technologies give traditional offerings a shot in the arm produce game changers for your industry or market build a new business in an established organization

Harvard Business Review on Rebuilding Your Business Model 2011

incorporating legislative and syllabus changes this edition maintains the popular loose leaf format and contains practice questions throughout revision section topic summaries recommended reading articles from a range of journals and more

Management Accounting-Performance Evaluation

2005

the work system method is an organized approach that every organization can use for recognizing that systems involve much more than it describing and understanding systems from a business viewpoint analyzing and improving systems improving communication between business and it professionals increasing the likelihood of successful implementation understanding the role and limitations of it

The Work System Method 2006

the ability to create and understand financial models that assess the valuation of a company the projects it undertakes and its future earnings profit projections is one of the most valued skills in corporate finance however while many business professionals are familiar with financial statements and accounting reports few are truly proficient at building an accurate and effective financial model from the ground up that s why in the financial modeling handbook jack avon equips financial professionals with all the tools they need to precisely and effectively monitor a company s assets and project its future performance based on the author s extensive experience building models in business and finance and teaching others to do the same the handbook of financial modeling takes readers step by step through the financial modeling process starting with a general overview of the history and evolution of financial modeling it then moves on to more technical topics such as the principles of financial modeling and the proper way to approach a financial modeling assignment before covering key application areas for modeling in microsoft excel designed for intermediate and advanced modelers who wish to expand and enhance their knowledge the handbook of financial modeling also covers the accounting and finance concepts that underpin working financial models how to approach financial issues and solutions from a modeler s perspective the importance of thinking about end users when developing a financial model how to plan design and build a fully functional financial model and more a nuts to bolts guide to solving common financial problems with spreadsheets the handbook of financial modeling is a one stop resource for anyone who needs to build or analyze financial models what you ll learn key financial modeling principles including best practices principles around calculations and the importance of producing clean clear financial models how to design and implement a projection model that allows the user to change inputs quickly for sensitivity testing the proper way to approach a financial modeling assignment from project planning all the way through to the documentation of the model s findings and effectiveness how to model in microsoft excel including how to set up an excel environment how to format worksheets and the correct application of various modeling

formulae the skills and knowledge they need to become more proficient financial modelers and differentiate themselves from their professional competitors who this book is for written in a clear concise manner and filled with screen grabs that will facilitate readers comprehension of the financial modeling process the handbook of financial modeling is appropriate for intermediate to advanced financial modelers who are looking to learn how to enhance their modeling proficiency table of contents financial modeling an overview financial modeling best practices modeling functions and tools planning your model testing and documenting your model designing and building your model the model user inputs an introduction to finance and accounting for modelers managing and evaluating a business for modelers the implications and rules of accounting for modelers financial based calculations logical and structural based calculations how to capture document and track assumptions in your model modeling to give the user transparency model testing and auditing modeling handover dos and don ts case study building a full life cycle model additional tools and vba for financial models what is the future of financial modeling keyboard shortcuts finance and accounting glossary readymade functions sample outputs housekeeping references

The Handbook of Financial Modeling 2013-11-19

the book and accompanying disk use the capabilities of electronic spreadsheet programs to provide 19 spreadsheet models that can be used for a wide range of urban and regional analysis and planning applications the models have been developed for lotus 1 2 3 version 1 00 for the ibm personal computer and compatible systems and can be adapted for use with other spreadsheet programs

Spreadsheet Models for Urban and Regional Analysis 1993

practical financial modelling 3e is a book on model development and model assurance it enhances the modelling process by emphasizing controls and checks for accuracy and reliability new content on validation and verification model use and sensitivity analysis is presented alongside a modelling methodology that underpins the various proprietary standards used in financial modelling today it provides more details than other books and yet is general enough for applying its methodology to many applications this book isn t just about the details of building cash flow models it s about building better cash flow models this new edition increases the number of worked examples and introduces new material on the audit sheet and audit workbook methodologies and the delta sheet approach to sensitivity analysis it provides the developer with a toolkit of modelling techniques and a

framework of error controls to reduce the risk of spreadsheet error the methodology and structure conforms with the modelling principles defined by the institute of chartered accountants of england and wales and the model assurance processes ensure compliance with the uk public sector macpherson report and regulatory requirements such as sarbanes oxley

A Sampling of Emissions Analysis Techniques for Transportation Control Measures 2000

constructing the infrastructure for the knowledge economy methods and tools theory and practice is the proceedings of the 12th international conference on information systems development held in melbourne australia august 29 31 2003 the purpose of these proceedings is to provide a forum for research and practice addressing current issues associated with information systems development isd isd is undergoing dramatic transformation every day new technologies applications and methods raise the standards for the quality of systems expected by organizations as well as end users all are becoming more dependent on the systems reliability scalability and performance thus it is crucial to exchange ideas and experiences and to stimulate exploration of new solutions this proceedings provides a forum for just that addressing both technical and organizational issues

Estimating Toll Road Demand and Revenue 2006

this book constitutes the thoroughly refereed proceedings of the third international conference on data technologies and applications data 2014 held in vienna austria in august 2014 the 12 revised full papers were carefully reviewed and selected from 87 submissions the papers deal with the following topics databases data warehousing data mining data management data security knowledge and information systems and technologies advanced application of data

Central and Southern Florida Project Comprehensive Review Study: app. B - Hydrology and hydraulics modeling; app. C - Engineering, design and cost estimates 1998

this book provides for the first time an overview on the current approaches and applications of energy aspects in production and logistics by the use of simulation techniques during the last decade the importance of energy in the material flow processes has become more and more important the pressure to reduce the environmental

footprint of production and logistics systems will even intensify in future therefore enterprises have started to integrate the use of energy into their planning processes much more than before even designing feedback loops e.g. from energy control to production control this receives additional attention with the increasing use of renewable but less reliable energy sources care must be taken to establish processes that aim to use energy when it is available as an example many industrial processes like melting or coating have significant energy demands but could vary the point of time of its consumption within specific limits leading to a very high complexity it discusses the construction and application of energy specific performance indicators and analyzes the input information that needs to be acquired before implementing suitable models on this basis concrete technical solutions are introduced

Practical Financial Modelling 2015-07-28

in the current volume consisting of parts a and b edited versions of most of the papers presented at the annual review of progress in quantitative nondestructive evaluation held at Bowdoin College Brunswick Maine on July 28 August 2 1991 have been collected the review was organized by the center for nde at Iowa State University and the Ames Laboratory of the USDOE in cooperation with a number of organizations including the Air Force Materials Directorate Wright Laboratory Wright Patterson Air Force Base the American Society for Nondestructive Testing the center for nde at Johns Hopkins University Department of Energy Federal Aviation Administration National Institute of Standards and Technology National Science Foundation Industry/University Cooperative Research Centers and the Office of Naval Research the 1991 review of progress in qnde was attended by approximately 450 participants from the US and many foreign countries who presented over 360 papers divided into 36 sessions with as many as four sessions running concurrently the meeting covered all phases of nde development from basic research to engineering applications and all methods of inspection science from acoustics to x-rays over the past ten years the participants of the review have seen it grow into one of the largest and most significant gatherings of nde researchers and engineers anywhere in the world by sharing their work at this conference they deserve much credit for its success

Constructing the Infrastructure for the Knowledge Economy 2013-03-09

Project Management Bootcamp is a pragmatic guide for those who need to understand how to deliver projects successfully the reader journeys through a project stage by stage discovering what project managers

commonly need to achieve at each step each step is supported by tables charts tips and tools which readers may adopt or adapt to their needs and different ways of organising and delivering projects including agile approaches are considered because theory can only get you so far a key element of the book is learning from real projects drawing on the experience of project managers working across three continents each chapter ends with challenges to readers to reflect on their learning which can be based on a theoretical case study or their own project the result is a reflective framework that charts their learning and their project management journey from initiation to closure project management bootcamp is essential reading for junior and mid level career project managers as well as any professionals who finds themselves in charge of a project and are unsure how to get the best result students in business and management courses at undergraduate and postgraduate levels will also value its setting of theory into a practical context

Data Management Technologies and Applications

2015-10-30

the interface between the user of a computer based information system and the system itself has been evolving at a rapid rate the use of a video screen with its color and graphics capabilities has been one factor in this evolution the development of light pens mice and other screen image manipulation devices has been another with these capabilities has come a natural desire to find more effective ways to make use of them in particular much work has gone into the development of interface systems that add visual elements such as icons and graphics to text the desire to use these visual elements effectively in communication between the user and the system has resulted in a healthy competition of ideas and discussion of the principles governing the development and use of such elements the present volume chronicles some of the more significant ideas that have recently been presented the first volume in this series on the subject visual languages chang ichikawa and ligomenides eds plenum 1986 covered work done in the early days of the field of visual languages here we represent ideas that have grown out of that early work arranged in six sections theory design systems visual programming algorithm animation simulation animation and applications i theory fundamental to the concept of visual languages is the conviction that diagrams and other visual representations can aid understanding and communication of ideas we begin this volume with a chapter by fanya s

Central and Southern Florida Project, **Everglades Agricultural Area Storage Reservoirs** **2006**

watershed modeling is at the heart of modern hydrology supplying rich information that is vital to addressing resource planning environmental and social problems even in light of this important role many books relegate the subject to a single chapter while books devoted to modeling focus only on a specific area of application recognizing the

Energy-Related Material Flow Simulation in Production and Logistics 2024-01-15

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

EIA Publications Directory 1977

a properly structured financial model can provide decision makers with a powerful planning tool that helps them identify the consequences of their decisions before they are put into practice introduction to financial models for management and planning second edition enables professionals and students to learn how to develop and use computer based models for financial planning this volume provides critical tools for the financial toolbox then shows how to use them tools to build successful models

Neuse River Basin Integrated Feasibility Report and Environment Assessment Final Report 2014

decision making is a process of choosing from possible courses of action in order to attain goals and objectives nobel laureate herbert simon wrote that the whole process of managerial decision making is synonymous with the practice of management decision making is at the core of all managerial functions planning for example involves the following decisions what should be done when how where by whom other managerial functions such as organizing implementing and controlling rely heavily on decision making decision by objectives is an invaluable book about the art and science of decision making it presents a very practical approach to decision making that has a sound theoretical foundation known as the analytic hierarchy process intended for both the student and the professional the book includes approaches to prioritizing evaluating alternative courses of action forecasting and allocating resources by focusing on objectives rather than alternatives alone it shows the reader how to synthesize information from multiple sources analyses and perspectives the methods presented have been gaining popularity throughout the world

Review of Progress in Quantitative Nondestructive Evaluation 2012-12-06

this book constitutes the thoroughly refereed proceedings of the 4th ibero american congress icsc cities 2021 held in cancún mexico in november december 2021 due to the covid 19 pandemic the conference was partially held online the 21 full papers and one short paper presented were carefully reviewed and selected from 112 submissions the papers are organized in topical sections on computational intelligence for smart cities urban informatics internet of things smart energy and

smart grid

A Framework for the Evaluation of the Benefits of Intelligent Transportation Systems 2000

in Spain as in most countries the real obstacle to effective and efficient delivery of key infrastructure is not the availability of finance but rather problems of governance this review examines the transport infrastructure governance framework in Spain against OECD good practices it identifies the main governance bottlenecks for the development of transport infrastructure projects and provides a comparison with what other countries have done to alleviate similar bottlenecks

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Managing today's lands is becoming an increasingly difficult task complex ecological interactions across multiple spatiotemporal scales create diverse landscape responses to management actions that are often novel counter intuitive and unexpected to make matters worse exotic invasions human land use and global climate change complicate this complexity and make past observational ecological studies limited in application to the future natural resource professionals can no longer rely on empirical data to analyze alternative actions in a world that is rapidly changing with few historical analogs new tools are needed to synthesize the high complexity in ecosystem dynamics into useful applications for land management some of the best new tools available for this task are ecological and landscape simulation models however many land management professionals and scientists have little expertise in simulation modeling and the costs of training these people will probably be exorbitantly high because most ecosystem and landscape models are exceptionally complicated and difficult to understand and use for local applications this book was written to provide natural resource professionals with the rudimentary knowledge needed to properly use ecological models and then to interpret their results it is based on the lessons learned from a career spent modeling ecological systems it is intended as a reference for novice modelers to learn how to correctly employ ecosystem landscape models in natural resource management applications and to understand subsequent modeling results

Feasibility Report for Navigation Improvements, Unalaska 2004

competence in investment analysis is now a basic requirement for most

practicing managers engineers and financial analysts in order to avoid possible serious mistakes arising from flawed or inadequate knowledge of the discipline furthermore individuals who make decisions based on technical economics stake their professional futures in many cases on the accuracy of such evaluations the aim of this volume is to provide a balanced view of the essential components of economic and financial analysis including 1 strategic and design issues 2 principles of cost management systems and activity based costing and 3 tools for developing the financial measures of investment worth with advanced topics and case studies in these three areas this volume provides a refreshing insight into the various methods that engineers managers and financial analysts may need to consider to find good alternatives for the investment of scarce resources not only are new ventures presented but also improvements within existing facilities that include process modification product design equipment replacement and plant expansion contraction

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health care systems are complex and as a result it is often unclear what the effects of changes in policy or service provision might be at the same time resources for health care tend to be in short supply which means that public health practitioners have to make difficult decisions this book describes the quantitative and qualitative methods that can help decision makers to structure and clarify difficult problems and to explore the implications of pursuing different options the accompanying cd rom provides the opportunity to try out some of the proposed solutions the book examines models and decision making in health care methods for clarifying complex decisions models for service planning and resource allocation modelling for evaluating changes in systems series editors rosalind plowman and nicki thorogood

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