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***Operation And
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Design and Operation of
Solid Oxide Fuel Cells:

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The Systems Engineering
Vision for Industrial
Application presents a
comprehensive, critical
and accessible review of
the latest research in the
field of solid oxide fuel

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cells (SOFCs). As well as discussing the theoretical aspects of the field, the book explores a diverse range of power applications, such as hybrid power plants,

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polygeneration,
distributed electricity
generation, energy storage
and waste management—all
with a focus on modeling
and computational skills.
Dr. Sharifzadeh presents

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the associated risks and limitations throughout the discussion, providing a very complete and thorough analysis of SOFCs and their control and operation in power plants.

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The first of its kind,
this book will be of
particular interest to
energy engineers, industry
experts and academic
researchers in the energy,
power and transportation

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industries, as well as those working and researching in the chemical, environmental and material sectors. Closes the gap between various power engineering

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disciplines by considering a
diverse variety of
applications and sectors
Presents and reviews a
variety of modeling
techniques and considers
regulations throughout

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Includes CFD modeling
examples and process
simulation and
optimization programming
guidance

The use of modeling and
simulation tools is

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rapidly gaining prominence in the pharmaceutical industry covering a wide range of applications.

This book focuses on modeling and simulation tools as they pertain to

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drug product manufacturing processes, although similar principles and tools may apply to many other areas. Modeling tools can improve fundamental process

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understanding and provide valuable insights into the manufacturing processes, which can result in significant process improvements and cost savings. With FDA

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mandating the use of Quality by Design (QbD) principles during manufacturing, reliable modeling techniques can help to alleviate the costs associated with such

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efforts, and be used to create in silico formulation and process design space. This book is geared toward detailing modeling techniques that are utilized for the

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various unit operations during drug product manufacturing. By way of examples that include case studies, various modeling principles are explained for the nonexpert end

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users. A discussion on the role of modeling in quality risk management for manufacturing and application of modeling for continuous manufacturing and

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biologics is also included. Explains the commonly used modeling and simulation tools Details the modeling of various unit operations commonly utilized in solid dosage

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drug product manufacturing
Practical examples of the
application of modeling
tools through case studies
Discussion of modeling
techniques used for a risk-
based approach to

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regulatory filings

Explores the usage of
modeling in upcoming areas
such as continuous
manufacturing and
biologics

manufacturingBullet points

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"This is an excellent and well-written text on discrete event simulation with a focus on applications in Operations Research. There is substantial attention to

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programming, output analysis, pseudo-random number generation and modelling and these sections are quite thorough. Methods are provided for generating

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pseudo-random numbers
(including combining such
streams) and for
generating random numbers
from most standard
statistical
distributions." --ISI

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Short Book Reviews, 22:2,
August 2002

Scientific and practical
studies of raw material
issues presents the
contribution to the
Russian-German raw

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materials forum. The main theme of the book is problematic issues of subsoil use, whereby the contributions are divided in two main parts: -
Exploration, mining and

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processing, and - Mining
services Paying much
attention to complex
processes in the mining
industry, Scientific and
practical studies of raw
material issues will be of

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interest to academics and professional involved or interested in Mining Engineering and Earth Sciences.

Scientific and Practical
Studies of Raw Material

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Issues

Applications of
Operational Research and
Mathematical Models in
Management

Interactive Operations
Research with Maple

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Modeling, Measuring and
Hedging Operational Risk
Case Studies on Drilling
Operations in the Ore
Mining Industry
Mathematical Modelling and
Simulation

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"This book explains the concept of man-machine systems by using the mining industry. The goal is to use a mathematical model based approach to improve the quality of human life of the workers and operators with the enhancement of productivity by controlling the process

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variables. The book will illustrate the formulation of mathematical modelling for manual operations. It will provide details in the investigation of many machine systems through the case study approach and provide data analysis using the concept of mathematical modelling and sensitivity. It presents how to solve a field

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problem through a field data-based modelling concept and highlights the collection of anthropometry data and its behavior. The book will be useful for researchers, academic libraries, professionals, post graduate students of Industrial, Mechanical, and Manufacturing Engineering programs"--

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Modeling, Operation, and Analysis of DC Grids presents a unified vision of direct current grids with their core analysis techniques, uniting power electronics, power systems, and multiple scales of applications. Part one presents high power applications such as HVDC transmission for wind energy, faults and protections in

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HVDC lines, stability analysis and inertia emulation. The second part addresses current applications in low voltage such as microgrids, power trains and aircraft applications. All chapters are self-contained with numerical and experimental analysis. Provides a unified, coherent presentation of DC grid analysis

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based on modern research in power systems, power electronics, microgrids and MT-HVDC transmission Covers multiple scales of applications in one location, addressing DC grids in electric vehicles, microgrids, DC distribution, multi-terminal HVDC transmission and supergrids Supported by a unified set of

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MATLAB and Simulink test systems
designed for application scenarios

This text provides an introduction to the
process of software engineering. The
revision concentrates on updating the
book to reflect the most current trends and
innovations in the field. The Universal
Modeling Language (UML) has become

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an industry standard and now permeates this new edition. In this text, it is used for object-oriented analysis and design as well as when diagrams depict objects and their interrelationships. Design patterns, frameworks and software architecture have also become a popular topic in the field of software engineering and are part

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of a new chapter on reuse, portability, and inoperability. The inoperability material includes sections on such hot topics as OLE, COM, and CORBA. Some material from the 3rd edition has been reorganized into a new chapter on planning and estimating, including feature points and COCOMO II. While the text has been

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updated, the traditional features which have defined the previous three editions of Schach's book have been retained. These include a balanced coverage of the object-oriented model along with the classical model (as reflected in the title) and an emphasis on metrics. The special considerations of object-oriented life-cycle

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models, object-oriented analysis, and object-oriented design are also retained in this edition.

Discover how to optimize business strategies from both qualitative and quantitative points of view Operational Risk: Modeling Analytics is organized around the principle that the analysis of

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operational risk consists, in part, of the collection of data and the building of mathematical models to describe risk. This book is designed to provide risk analysts with a framework of the mathematical models and methods used in the measurement and modeling of operational risk in both the banking and insurance

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sectors. Beginning with a foundation for operational risk modeling and a focus on the modeling process, the book flows logically to discussion of probabilistic tools for operational risk modeling and statistical methods for calibrating models of operational risk. Exercises are included in chapters involving numerical

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computations for students' practice and reinforcement of concepts. Written by Harry Panjer, one of the foremost authorities in the world on risk modeling and its effects in business management, this is the first comprehensive book dedicated to the quantitative assessment of operational risk using the tools of

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probability, statistics, and actuarial science. In addition to providing great detail of the many probabilistic and statistical methods used in operational risk, this book features:

- * Ample exercises to further elucidate the concepts in the text
- * Definitive coverage of distribution functions and related concepts
- * Models

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for the size of losses * Models for frequency of loss * Aggregate loss modeling * Extreme value modeling * Dependency modeling using copulas * Statistical methods in model selection and calibration Assuming no previous expertise in either operational risk terminology or in mathematical statistics, the text is designed

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for beginning graduate-level courses on risk and operational management or enterprise risk management. This book is also useful as a reference for practitioners in both enterprise risk management and risk and operational management.

Predictive Modeling of Pharmaceutical
Unit Operations

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Combat Modeling

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The Exposure, Occurrence, Impact
Method

How to Run Your Trains Like the Real
Thing

Solid Fuels Combustion and Gasification

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Breakthroughs in Research and Practice
*This book, Applications of Operational
Research and Mathematical Models in
Management, includes all the papers
published in the Mathematics Special
Issue with the same title. All the
published papers are of high quality and*

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were subjected to rigorous peer review. Mathematics is included in the Science Citation Index (Web of Science), and its current Impact Factor is 1.747. The papers in this book deal with on R&D performance models, methods for ranking the perspectives and indicators

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of a balance scorecard, robust optimization model applications, integrated production and distribution problem solving, demand functions, supply chain games, probabilistic optimization and profit research, coordinated techniques for order

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preference, robustness approaches in bank capital optimization, and hybrid methods for tourism demand forecasting. All the papers included contribute to the development of research.

The thoroughly revised and updated

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book, now in its second edition, continues to present a comprehensive view of the concepts and applications of various quantitative models used in the study of operations and supply chain management. It provides a complete account of location and layout models,

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production planning models, production control models, cycle inventory models, safety stock models and transportation models. A separate chapter on real-life situations provides the user with the knowledge of specific areas where the models have been applied in decision-

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making processes. The various techniques to solve operations and supply chain management problems are also discussed. The text is supported by a large number of illustrative examples, exercises and review questions to reinforce the students' understanding of

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the subject matter. Designed as a textbook for the students of mechanical and industrial engineering, the book would also be useful to postgraduate students of management. NEW TO THE SECOND EDITION • Two new chapters on 'Production Control—Additional

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Approaches' (Chapter 6) and 'Materials Planning and Lot Sizing' (Chapter 8) • Forecasting and Aggregate Planning are described in two separate chapters • Each chapter includes new sections, additional examples, illustrations, short questions and exercises • Provides

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solutions to the exercises

Bridging the gap between theory and application, this reference demonstrates the operational mechanisms, modeling, and simulation of equipment for the combustion and gasification of solid fuels. Solid Fuels Combustion and

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*Gasification: Modeling, Simulation, and
Equipment Operation clearly illustrates
procedures to improve and optimize the
de*

*Covers freight and passenger operations,
route design, and contemporary
railroading operations. The step-by-step*

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*design techniques and operation-oriented
track plans also make it easy to create
your own realistic model railroad.*

***QUANTITATIVE MODELS IN
OPERATIONS AND SUPPLY CHAIN
MANAGEMENT***

For Procurement, Operations, and

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Supply Chain Professionals

Methods and Models

Becoming a Disruptive Competitor

Prototype Railroad Concepts for Your

Model Railroad

Public Water Supply

Operational Urban Models

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"Combat Modeling" is a systematic learning resource and reference text for the quantitative analysis of combat. After a brief overview, authors Washburn and Kress present

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individual chapters on
shooting without feedback;
shooting with feedback;
target defense; attrition
models; game theory and
wargames; search; unmanned
aerial vehicles; and

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terror and insurgency.

Three appendices provide a
review of basic
probability concepts,
probability distributions,
and Markov models; an
introduction to

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optimization models; and a discussion of Monte-Carlo simulations. Drawing on their many years of experience at the Naval Postgraduate School in Monterey, California,

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Washburn and Kress have created a reference that will provide the tools and techniques for analysts involved in the underpinnings of combat decisions. This is a book

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that can be used as a
military manual, reference
book, and textbook for
military courses on this
vital subject.

State of the art of
combined cooling, heating,

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and power (CCHP) systems
-- An optimal switching
strategy for operating
CCHP systems -- A balance
space based operation
strategy for CCHP systems
-- Energy hub modeling and

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optimization based
operation strategy for
CCHP systems -- Short-term
load forecasting and post-
strategy design for CCHP
systems -- Complementary
configuration and

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operation of a CCHPORC
system

Most successful companies
have operations management
at their heart. It should
enable strategy and should
be part of boardroom

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discussions. However,
Cranfield research has
shown that business
strategy barely recognises
the world of operations
management. Recognising
that operations management

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needs to be more
strategic, Business
Operations Models is a
revolutionary new title
that looks at the
interrelationship of
operations management and

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strategy. In Business
Operations Models, Martin
Christopher and Alan
Braithwaite identify the
characteristics of market-
leading businesses that
have transformed their

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markets and delivered
super performance for
their stakeholders. It
points to the theory gap
between strategic thinking
and operations and how
many high-performing

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businesses arrive at their new operating models as much by chance as judgement. Unpacking those observations leads to some clearly defined features of winning competitors,

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including eliminating
waste, leveraging
technology, and utilising
transformative business
models. Business
Operations Models offers a
framework for achieving

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super performance and understanding when and how a company may be able to leverage its capabilities to outperform. The book provides detailed international case studies

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that illustrate how the principles work in practice, including Apple, Dell, Amazon, John Lewis, Southwest airlines, Aldi, Toyota and many others.
Interactive Operations

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Research with Maple:

Methods and Models has two objectives: to provide an accelerated introduction to the computer algebra system Maple and, more importantly, to

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demonstrate Maple's usefulness in modeling and solving a wide range of operations research (OR) problems. This book is written in a format that makes it suitable for a

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one-semester course in
operations research,
management science, or
quantitative methods. A
number of students in the
departments of operations
research, management

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science, operations
management, industrial and
systems engineering,
applied mathematics and
advanced MBA students who
are specializing in
quantitative methods or

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operations management
will find this text
useful. Experienced
researchers and practi-
tioners of operations
research who wish to
acquire a quick overview

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of how Maple can be useful
in solving OR problems
will find this an
excellent reference.
Maple's mathematical
knowledge base now
includes calculus, linear

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algebra, ordinary and
partial differential
equations, number theory,
logic, graph theory,
combinatorics, statistics
and transform methods.
Although Maple's main

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strength lies in its
ability to perform
symbolic manipulations, it
also has a substantial
knowledge of a large
number of numerical
methods and can plot many

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different types of attractive-looking two-dimensional and three-dimensional graphs. After almost two decades of continuous improvement of its mathematical

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capabilities, Maple can now boast a user base of more than 300,000 academics, researchers and students in different areas of mathematics, science and engineering.

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Student's Guide to
Operations Research
Wind Turbine Operation in
Electric Power Systems
Modeling, Operation, and
Analysis of DC Grids
Epidemic-logistics

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Modeling: A New

Perspective on Operations
Research

Classical and Object-
oriented Software

Engineering with UML and
C++

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Informing for Operations:
Framework, Model, and the
First Principles, 2nd ed
(2011)

Intelligent Transportation
and Planning:
Breakthroughs in Research

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This important book is by top scholars in supply chain management, revenue management, and e-commerce, all of which are grounded in information technologies and consumer demand research. The book looks at new selling techniques designed to reach the

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consumer.

Decision-making is an important task no matter the industry. Operations research, as a discipline, helps alleviate decision-making problems through the extraction of reliable information related to the task at hand in order to come to a viable solution. Integrating stochastic processes into

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operations research and management can further aid in the decision-making process for industrial and management problems. Stochastic Processes and Models in Operations Research emphasizes mathematical tools and equations relevant for solving complex problems within business and industrial settings. This

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research-based publication aims to assist scholars, researchers, operations managers, and graduate-level students by providing comprehensive exposure to the concepts, trends, and technologies relevant to stochastic process modeling to solve operations research problems. Clearly and comprehensively, this book

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explains practical problems and potential solutions to those who need to use the latest IT and computing developments to improve efficiency. It will help managers make the most of available resources.

A comprehensive survey of thermal processing and modelling techniques in food process engineering. It combines

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theory and practice to solve actual problems in the food processing industry - emphasizing heat and mass transfer, fluid flow, electromagnetics, stochastic processes, and neural network analysis in food systems. There are specific case stu
Track Planning for Realistic Operation
Combined Cooling, Heating, and Power

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Systems

*The Systems Engineering Vision for
Industrial Application*

Modeling Food Processing Operations

*Stochastic Processes and Models in
Operations Research*

*Consumer-Driven Demand and
Operations Management Models*

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Discrete-Event Simulation

A comprehensive approach to Wind Turbine Generator Systems (WTGS) and their operation in dynamic electric power system analysis. The presented advanced models arose from the author's research. They describe the complicated dynamical

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system behavior of wind turbines much better than the over-simplified static models. In particular, the control structure is taken into account. This book provides advanced tools for design, projection and optimization of turbines and systems that have yet not been

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Modern, large-scale analog integrated circuits (ICs) are essentially composed of metal-oxide semiconductor (MOS) transistors and their interconnections. As technology scales down to deep sub-micron dimensions and supply voltage

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decreases to reduce power consumption, these complex analog circuits are even more dependent on the exact behavior of each transistor. High-performance analog circuit design requires a very detailed model of the transistor, describing accurately its static and dynamic

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behaviors, its noise and matching limitations and its temperature variations. The charge-based EKV (Enz-Krummenacher-Vittoz) MOS transistor model for IC design has been developed to provide a clear understanding of the device properties, without the use of

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complicated equations. All the static, dynamic, noise, non-quasi-static models are completely described in terms of the inversion charge at the source and at the drain taking advantage of the symmetry of the device. Thanks to its hierarchical structure, the model offers several

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coherent description levels, from basic hand calculation equations to complete computer simulation model. It is also compact, with a minimum number of process-dependant device parameters. Written by its developers, this book provides a comprehensive treatment of the EKV

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charge-based model of the MOS transistor for the design and simulation of low-power analog and RF ICs. Clearly split into three parts, the authors systematically examine: the basic long-channel intrinsic charge-based model, including all the fundamental aspects of the EKV

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MOST model such as the basic large-signal static model, the noise model, and a discussion of temperature effects and matching properties; the extended charge-based model, presenting important information for understanding the operation of deep-submicron devices; the high-

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frequency model, setting out a complete MOS transistor model required for designing RF CMOS integrated circuits. Practising engineers and circuit designers in the semiconductor device and electronics systems industry will find this book a valuable guide to the modelling of

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MOS transistors for integrated circuits. It is also a useful reference for advanced students in electrical and computer engineering.

First published in 1981. Urban modelling techniques are an established tool in assessing the possible repercussions of major

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changes in land use. This book is an introductory guide to the various models that have been developed and to how they can be applied in planning practice, particularly with relation to land use activities such as residential, industrial and retail development, and changes in the

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transport network. The author has provided a coherent and reliable introductory text which will be welcomed by students and teachers in search of a guide to current methods in the field of urban modelling.

This book is the first work to conduct

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the emergency logistics optimization problem under the epidemic environment (whether natural or man-made), which provides a new perspective for the application of optimization theory. In this book, the research methods involve epidemic dynamics, scenario-based emergency

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decision-making method, big data which combines the traditional and emerging technologies. The authors take epidemic outbreak as the research object and deeply integrate the epidemic spread model with the optimization model of emergency resource scheduling, which opens up

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a novel application area of operations research.

Power System Optimization Modeling
in GAMS

A Model-Based Approach

Modeling, Programming, and Analysis
Design and Operation of Solid Oxide
Fuel Cells

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Charge-Based MOS Transistor
Modeling

Realistic Model Railroad Operation
Modeling Analytics

This addition to the
ISOR series introduces
complementarity models

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in a straightforward and
approachable manner and
uses them to carry out
an in-depth analysis of
energy markets,
including formulation
issues and solution

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techniques. In a
nutshell,
complementarity models
generalize: a.
optimization problems
via their Karush-Kuhn-
Tucker conditions b. on-

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cooperative games in
which each player may be
solving a separate but
related optimization
problem with potentially
overall system
constraints (e.g.,

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market-clearing

conditions) c. economic
and engineering problems
that aren't specifically
derived from
optimization problems
(e.g., spatial price

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equilibria) d. problems
in which both primal and
dual variables (prices)
appear in the original
formulation (e.g., The
National Energy Modeling
System (NEMS) or its

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precursor, PIES). As such, complementarity models are a very general and flexible modeling format. A natural question is why concentrate on energy

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markets for this
complementarity
approach? s it turns
out, energy or other
markets that have game
theoretic aspects are
best modeled by

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complementarity

problems. The reason is
that the traditional
perfect competition
approach no longer
applies due to
deregulation and

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restructuring of these
markets and thus the
corresponding
optimization problems
may no longer hold.

Also, in some instances
it is important in the

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original model

formulation to involve both primal variables (e.g., production) as well as dual variables (e.g., market prices) for public and private

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sector energy planning.
Traditional optimization
problems can not
directly handle this
mixing of primal and
dual variables but
complementarity models

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can and this makes them
all that more effective
for decision-makers.

Transform your approach
to oprisk modelling with
a proven, non-
statistical methodology

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Operational Risk

Modeling in Financial
Services provides risk
professionals with a
forward-looking approach
to risk modelling, based
on structured management

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judgement over obsolete
statistical methods.

Proven over a decade's
use in significant banks
and financial services
firms in Europe and the
US, the Exposure,

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Occurrence, Impact (XOI) method of operational risk modelling played an instrumental role in reshaping their oprisk modelling approaches; in this book, the expert

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team that developed this methodology offers practical, in-depth guidance on XOI use and applications for a variety of major risks. The Basel Committee has

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dismissed statistical
approaches to risk
modelling, leaving
regulators and
practitioners searching
for the next generation
of oprisk

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quantification. The XOI method is ideally suited to fulfil this need, as a calculated, coordinated, consistent approach designed to bridge the gap between

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risk quantification and
risk management. This
book details the XOI
framework and provides
essential guidance for
practitioners looking to
change the oprisk

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operational risks, such as disasters, fraud, conduct, legal and cyber risk The financial services industry is in dire need of a new standard – a proven,

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transformational
approach to operational
risk that eliminates or
mitigates the common
issues with traditional
approaches. Operational
Risk Modeling in

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provides practical, real-
world guidance toward a
more reliable
methodology, shifting
the conversation toward
the future with a new

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kind of oprisk
modelling.

This unique book
describes how the
General Algebraic
Modeling System (GAMS)
can be used to solve

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various power system
operation and planning
optimization problems.
This book is the first
of its kind to provide
readers with a
comprehensive reference

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that includes the solution codes for basic/advanced power system optimization problems in GAMS, a computationally efficient tool for

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analyzing optimization problems in power and energy systems. The book covers theoretical background as well as the application examples and test case studies.

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It is a suitable
reference for dedicated
and general audiences
including power system
professionals as well as
researchers and
developers from the

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energy sector and
electrical power
engineering community
and will be helpful to
undergraduate and
graduate students.
Since the 1960s,

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operations research (or, alternatively, management science) has become an indispensable tool in scientific management. In simple words, its goal on the

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strategic and tactical levels is to aid in decision making and, on the operational level, automate decision making. Its tools are algorithms, procedures

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that create and improve solutions to a point at which optimal or, at least, satisfactory solutions have been found. While many texts on the subject emphasize

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methods, the special focus of this book is on the applications of operations research in practice. Typically, a topic is introduced by means of a description

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of its applications, a model is formulated and its solution is presented. Then the solution is discussed and its implications for decision making are

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outlined. We have attempted to maximize the understanding of the topics by using intuitive reasoning while keeping mathematical notation

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and the description of techniques to a minimum. The exercises are designed to fully explore the material covered in the chapters, without resorting to

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mind-numbing repetitions
and trivialization.

Developing Excel Models
to Raise Capital,
Increase Cash Flow,
Improve Operations, Plan
Projects, and Make

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Decisions

Business Operations

Models

Design and Analysis

Financial Modeling for

Business Owners and

Entrepreneurs

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Food Processing

Operations Modeling

The Physical and

Mathematical Modeling of

Tundish Operations

Modeling, Simulation,

and Equipment Operations

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***: Information is power in
supply chain operations,
negotiations, continuous
improvement programs,
and process
improvement, and indeed
in all aspects of***

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***managing an operation.
Accurate and timely
information can result in
better decisions that
translate into
improvement of bottom
line results. The***

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***development and
effective use of cost
modeling as a method to
understand the cost of
products, services, and
processes can help drive
improvements in the***

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***quality and timeliness of
decision making. In the
supply chain community
an understanding of the
actual cost structures of
products and services,
whether with new or non-***

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partner suppliers, can facilitate fact-based discussions which are more likely to result in agreements that are competitively priced and with fair margins.

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Further, accurate cost models which are cooperatively developed between supply chain partners can form the basis for joint efforts to reduce non-value-added

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***costs and provide
additional focus towards
operational improvement.
While many organizations
feel confident they have
an understanding of the
cost structure for***

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***products and services
produced internally, cost
modeling often uncovers
areas where significant
cost improvement can be
obtained. Cost of quality
is a particular type of***

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internal cost model that analyzes the true costs associated with the production of less than perfect products and services. The development of a cost of

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quality model can provide insight into how products or services of higher quality can be produced at lower cost. This book provides the business student or professional a

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***concise guide to the
creation and effective use
of both internal and
external cost models.
Development of internal
cost models is discussed
with illustrations showing***

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***how they can be
deployed to assist in new
product development,
pricing decisions, make-
or-buy decisions and the
identification of
opportunities for internal***

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***process improvement
projects. The creation
and use of external cost
models are discussed
providing insight into
how their use can drive
collaborative***

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***improvement efforts
among supply chain
partners, better prepare
for price negotiations,
and keep negotiations
focused on facts rather
than emotions--all while***

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***allowing for future
discussions with
preferred suppliers to
focus on more strategic
and operational
improvement initiatives,
and less on pricing. A***

***number of detailed cost
model examples are
provided to educate on
both how cost models are
constructed, and to
demonstrate how they
have been effectively***

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deployed

***In recent years it has
been recognized that
tundishes playa critical
role in affecting the
quality of the finished
steel products.***

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Furthermore, proper tundish design may be even more important in the development of the novel continuous casting processes that are now in varying stages of

***realizatic)ll. Traditionally,
physical modeling has
played a key role in
tundish design, but the
recently evolved
computational software
packages, the readily***

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accessible computational hardware, and, perhaps most important, the growing experience with tackling a broad range of computational fluid flow problems within a

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***metallurgical context
have made mathematical
modeling an important
factor in this field. Our
aim in writing this book
has been to bring
realistic perspectives to***

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tundish design. The main purpose is to provide a good physical understanding of what is happening in tundishes, together with a realistic discussion of topics that

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***are still not quite clear.
The process metallurgist
active in this field has
many tools at his or her
disposal, including
mathematical modeling,
physical modeling, and***

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***measurements on full
plant-scale systems. In
this monograph we seek
to show how these ideas
may be combined to
provide a good basic
understanding and,***

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hence, an attempt at an optimal design. Public transport operators are faced with ever-greater pressures. The need to monitor the performance of individual

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services, as well as the system as a whole, has increased. Operators are constantly looking for methods which can improve both the service to the passenger and the

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***cost-effectiveness of
their operation. This new
book offers the reader
new solutions to deliver
both better services and
greater efficiency,
solutions that have been***

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***developed and tested by
the author in real-life
situations for mass
transit operators all over
the world. Based on a
wealth of experience
built up over 30 years***

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***working for and with
public transport
operators, Public Transit
Planning and Operation
offers crucial insights.
From driverless cars to
vehicular networks,***

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recent technological advances are being employed to increase road safety and improve driver satisfaction. As with any newly developed technology, researchers

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***must take care to
address all concerns,
limitations, and dangers
before widespread public
adoption. Intelligent
Transportation and
Planning: Breakthroughs***

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***in Research and Practice
is an innovative reference
source for the latest
academic material on the
applications,
management, and
planning of intelligent***

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***transportation systems.
Highlighting a range of
topics, such as automatic
control, infrastructure
systems, and system
architecture, this
publication is ideally***

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***designed for engineers,
academics, professionals,
and practitioners actively
involved in the
transportation planning
sector.***

Models, Data and

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***Operational Management
Modeling, Optimization,
and Operation
Advanced Modeling
Quantitative Operational
Risk Models
Operational Risk***

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***Operational Risk
Modeling in Financial
Services
The EKV Model for Low-
Power and RF IC Design***

The MOS (Metal Oxide
Semiconductor) transistor is the

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most important building block of modern silicon integrated circuits. This book fills an important gap in the literature by presenting a unified treatment of the operation and modeling of the MOS transistor that is complemented with extensive intuitive

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discussions. The MOS transistor is the dominant VLSI (Very Large Scale Integration) device, and understanding of this device is mandatory for those people planning a career in device physics and modeling as well as in circuit design. Especially

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important for university courses, there is a logical, systematic and progressive description that starts with semiconductor fundamentals and builds up to a comprehensive understanding of the basics of MOS transistors. For practicing professionals there are details of

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nuances observed in MOS transistor behavior, and various approaches to modeling these are presented. Detailed derivations are given for modeling dc currents, charges for large-signal operation, small-signal operation at low frequencies and high

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frequencies, and noise.

Using real-life examples from the banking and insurance industries, Quantitative Operational Risk Models details how internal data can be improved based on external information of various kinds. Using a simple and intuitive

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methodology based on classical transformation methods, the book includes real-life examples of the combination of internal data and external information. A guideline for practitioners, the book begins with the basics of managing operational risk data to more

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sophisticated and recent tools needed to quantify the capital requirements imposed by operational risk. The book then covers statistical theory prerequisites, and explains how to implement the new density estimation methods for analyzing

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the loss distribution in operational risk for banks and insurance companies. In addition, it provides: Simple, intuitive, and general methods to improve on internal operational risk assessment Univariate event loss severity distributions analyzed

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using semiparametric models
Methods for the introduction of
underreporting information A
practical method to combine
internal and external operational
risk data, including guided
examples in SAS and R Measuring
operational risk requires the

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knowledge of the quantitative tools and the comprehension of insurance activities in a very broad sense, both technical and commercial. Presenting a nonparametric approach to modeling operational risk data, Quantitative Operational Risk

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Models offers a practical perspective that combines statistical analysis and management orientations. Computational modeling is an important tool for understanding and improving food processing and manufacturing. It is used for

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many different purposes, including process design and process optimization. However, modeling goes beyond the process and can include applications to understand and optimize food storage and the food supply chain, and to perform

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a life cycle analysis. Modeling Food Processing Operations provides a comprehensive overview of the various applications of modeling in conventional food processing. The needs of industry, current practices, and state-of-the-art

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technologies are examined, and case studies are provided. Part One provides an introduction to the topic, with a particular focus on modeling and simulation strategies in food processing operations. Part Two reviews the modeling of various food

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processes involving heating and cooling. These processes include: thermal inactivation; sterilization and pasteurization; drying; baking; frying; and chilled and frozen food processing, storage and display. Part Three examines the modeling of multiphase unit

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operations such as membrane separation, extrusion processes and food digestion, and reviews models used to optimize food distribution. Comprehensively reviews the various applications of modeling in conventional food processing Examines the

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modeling of multiphase unit operations and various food processes involving heating and cooling Analyzes the models used to optimize food distribution Develop realistic operating sessions and operate your model railroad like a full-sized one. The

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book covers how to forward cars,
move trains, and use signal
systems.

Complementarity Modeling in
Energy Markets

Better Business Decisions Using
Cost Modeling

From High Power DC Transmission

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to DC Microgrids

Operations Research
A Systematic Study of Information-
Technology-Enabled Sales
Mechanisms
Public Transit Planning and
Operation

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Worldwide banks are keen to find ways of effectively measuring and managing operational risk , yet many find themselves poorly equipped to do this.

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Operational risk includes concerns about such issues as transaction processing errors, liability situations, and back-office failure.

Measuring and Modelling

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***Operational Risk focuses
on the measuring and
modelling techniques
banks and investment
companies need to
quantify operational risk
and provides practical,***

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***sensible solutions for
doing so. * Author is one
of the leading experts in
the field of operational
risk. * Interest in the field
is growing rapidly and
this is the only book that***

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***focuses on the
quantitative measuring
and modelling of
operational risk. *
Includes case vignettes
and real-world examples
based on the author's***

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***extensive experience.
Financial Modeling for
Business Owners and
Entrepreneurs:
Developing Excel Models
to Raise Capital, Increase
Cash Flow, Improve***

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***Operations, Plan Projects,
and Make Decisions may
be one of the most
important books any
entrepreneur or manager
in a small or medium-
sized enterprise will read.***

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***It combines logical
business principles and
strategies with a step-by-
step methodology for
planning and modeling a
company and solving
specific business***

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***problems. You'll learn to
create operational and
financial models in Excel
that describe the
workings of your company
in quantitative terms and
that make it far more***

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***likely you will avoid the
traps and dead ends many
businesses fall into.***

***Serial entrepreneur and
financial expert Tom Y.***

***Sawyer shows how to
break your company down***

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***into basic functional and
operational components
that can be modeled. The
result is a financial model
that, for example, you can
literally take to the bank
or bring to local angel***

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***investors to receive the
funding you need to
launch your business or a
new product. Or it might
be a model that shows
with startling clarity that
your new product***

development effort is a likely winner—or loser. Even better, you'll learn to create models that will serve as guideposts for ongoing operations. You'll always know just

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***where you are financially,
and where you need to be.
The models you will learn
to build in Financial
Modeling for Business
Owners and
Entrepreneurs can be***

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***used to: Raise capital for
startup or any stage of
growth Plan projects and
new initiatives Make
astute business decisions,
including go/no-go
assessments Analyze ROI***

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***on your product
development and
marketing expenditures
Streamline operations,
manage budgets, improve
efficiency, and reduce
costs Value the business***

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***when it is time to cash
out or merge In addition
to many valuable
exercises and tips for
using Excel to model your
business, this book
contains a combination of***

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***practical advice born of
hard-won lessons,
advanced strategic
thought, and the
insightful use of hard
skills. With a basic
knowledge of Excel***

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***assumed, it will help you
learn to think like an
experienced business
person who expects to
make money on the
products or services
offered to the public.***

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You'll discover that the financial model is a key management tool that, if built correctly, provides invaluable assistance every step of the entrepreneurial journey.

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***Tom Y. Sawyer has used
the principles this book
contains to create
financial models of
numerous startup and
early-stage companies,
assisting them in***

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***planning for and raising
the capital that they
needed to grow their
businesses and ultimately
exit with multiples of
their initial investment.
Financial Modeling for***

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***Business Owners and
Entrepreneurs, a mini-
MBA in entrepreneurship
and finance, will show you
how you can do the same.
Note: This book is an
updated version of***

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***Sawyer's 2009 title, Pro
Excel Financial Modeling.***