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include clear and

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coverage of

fundamentals, an

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text on operations
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strengths of the text,
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Significantly revised, this book provides balanced coverage of the theory, applications, and computations of operations research. The applications and computations in operations research are emph

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concepts. A

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research text while
incorporating a
wealth of state-of-**

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and more**

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**applications than
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hallmark features**

**of this edition
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**extensive set of
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will also feature

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developments in

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metaheuristics,

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Reasons for

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It is not unusual that important cost factors were disregarded in the original basis of decision-making. In the meantime many companies have realized

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***that it is
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A handbook in the truest sense of the word, the first edition of the Operations Research Calculations Handbook quickly became an

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available tend to

give detailed

information about

specific topics, this

one contains

comprehensive

information and

results useful for

real-world problem

solving. Reflecting

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calculations and*

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*results and
formulas needed in
the scientific
applications of
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insight into system
performance.*

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*and formulas
without derivations,
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and offered in a
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to a wide range of
results in a single
volume. The field of
operations research
encompasses a
growing number of*

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and uses analyses*

and techniques

from a variety of

branches of

mathematics,

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disciplines. And as

the field continues

to grow, there is an

even greater need

for key results to be

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*summarized and
easily accessible in
one reference*

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of the important
results and
formulas are widely
scattered among
different textbooks
and journals and
are often hard to
find in the midst of
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Operations researchers have made significant

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*developments in
the algorithms for
their solution,
and ÷ Vehicle
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Second
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these advances.
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completely new or*

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significantly

revised and

provides extensive

and complete state-

of-the-art coverage

of vehicle routing

by those who have

done most of the

innovative research

in the area; it

emphasizes

methodology

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classes of vehicle routing problems and, since vehicle routing is used as a benchmark for all new solution techniques, contains a complete overview of current solutions to combinatorial optimization problems. It also

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that managers

have to take in

their day to day

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out strategic

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with the advent

of operations

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software, these

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managers even

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Heinz Nixdorf

Symposium, IHNS

2010, Paderborn,

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Germany, April
21-22, 2010,
Research Hillier
Solutions
Proceedings

The objective of this book is to provide a valuable compendium of problems as a reference for undergraduate and graduate students, faculty, researchers and practitioners of

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operations research

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and management

Solutions

science. These

problems can serve as

a basis for the

development or study

of assignments and

exams. Also, they can

be useful as a guide

for the first stage of

the model

formulation, i.e. the

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*Research Hillier
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*definition of a
problem. The book is
divided into 11*

*chapters that address
the following topics:*

*Linear programming,
integer programming,
non linear*

*programming,
network modeling,
inventory theory,
queue theory, tree*

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decision, game

theory, dynamic

programming and

markov processes.

Readers are going to

find a considerable

number of statements

of operations

research applications

for management

decision-making. The

solutions of these

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*problems are
provided in a concise
way although all*

*topics start with a
more developed*

resolution. The

proposed problems

are based on the

research experience

of the authors in real-

world companies so

much as on the

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teaching experience

of the authors in

order to develop

exam problems for

industrial engineering

and business

administration

studies.

Operations Research

(OR) began as an

interdisciplinary

activity to solve

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*complex military
problems during
World War II.*

*Utilizing principles
from mathematics,
engineering, business,
computer science,
economics, and
statistics, OR has
developed into a full
fledged academic
discipline with*

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practical application

in business, industry,

government and

military. Currently

regarded as a body

of established

mathematical models

and methods essential

to solving

complicated

management issues,

OR provides

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quantitative analysis

of problems from

which managers can

make objective

decisions. Operations

Research and

Management Science

(OR/MS)

methodologies

continue to flourish

in numerous decision

making fields.

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Featuring a mix of international authors, Operations Research and Management Science Handbook combines OR/MS models, methods, and applications into one comprehensive, yet concise volume. The first resource to reach for when confronting

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*OR/MS difficulties,
this text – Provides a
single source guide in*

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theory and practice

Covers all topics

relevant to OR/MS

Offers a quick

reference guide for

students, researchers

and practitioners

Contains unified and

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up-to-date coverage

designed and edited

with non-experts in

mind Discusses

software availability

for all OR/MS

techniques Includes

contributions from a

mix of domestic and

international experts

The 26 chapters in

the handbook are

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divided into two parts. Part I contains 14 chapters that cover the fundamental OR/MS models and methods. Each chapter gives an overview of a particular OR/MS model, its solution methods and illustrates successful

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applications. Part II

of the handbook

contains 11 chapters

discussing the OR/MS

applications in

specific areas. They

include airlines, e-

commerce, energy

systems, finance,

military, production

systems, project

management, quality

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control, reliability,

supply chain

management and

water resources. Part

II ends with a chapter

on the future of

OR/MS applications.

This textbook is

comprised of detailed

case studies covering

challenging real

world applications of

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OR techniques.

Among the overall goals of the book is to provide readers with descriptions of the history and other background information on a variety of industries, service or other organizations in which decision

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making is an

important component

of their daily

operations. The book

considers all methods

of optimum decision

making in order to

improve

performances. It also

compares possible

solutions obtained by

different approaches,

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*concluding with a
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the best among them
for implementation.*

*By exposing students
to a variety of
applications in a
variety of areas and
explaining how they
can be modeled and
solved, the book helps
students develop the*

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skills needed for modeling and solving problems that they may face in the workplace. Each chapter of "Case Studies in Operations Research: Applications of Optimal Decision Making" also includes additional data

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*provided on the
book's website on*

Springer.com. These

files contain a brief

description of the

area of application,

the problem and the

required outputs. Also

provided are links to

access all the data in

the problem. Finally

there are project

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exercises for students

to practice what they

have learnt in the

chapter, which can

also be used by

instructors as project

assignments in their

courses.

Frederick S. Hillier

and Gerald J.

Lieberman

Student Solutions

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