

# Introduction To Operations Research

## Hillier Solutions 9th Edition

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introduction to operations research

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using a style of presentation that makes even the more difficult topics  
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manner in which the topics are developed leads students to discover  
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notation and unnecessary jargon an appendix provides notational  
conventions for matrix algebra

since the 1960s operations research or alternatively management  
science has become an indispensable tool in scientific management in  
simple words its goal on the strategic and tactical levels is to aid in  
decision making and on the operational level automate decision making  
its tools are algorithms procedures 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 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 of its  
applications a model is formulated and its solution is presented then  
the solution is discussed and its implications for decision making are

outlined we have attempted to maximize the understanding of the topics by using intuitive reasoning while keeping mathematical notation and the description of techniques to a minimum the exercises are designed to fully explore the material covered in the chapters without resorting to mind numbing repetitions and trivialization

operations research a practical introduction is just that a hands on approach to the field of operations research or and a useful guide for using or techniques in scientific decision making design analysis and management the text accomplishes two goals first it provides readers with an introduction to standard mathematical models and algorithms second it is a thorough examination of practical issues relevant to the development and use of computational methods for problem solving highlights all chapters contain up to date topics and summaries a succinct presentation to fit a one term course each chapter has references readings and list of key terms includes illustrative and current applications new exercises are added throughout the text software tools have been updated with the newest and most popular software many students of various disciplines such as mathematics economics industrial engineering and computer science often take one course in operations research this book is written to provide a succinct and efficient introduction to the subject for these students while offering a sound and fundamental preparation for more advanced courses in linear and nonlinear optimization and many stochastic models and analyses it provides relevant analytical tools for this varied audience and will also serve professionals corporate managers and technical consultants

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the author have used numerical examples as the means for presentation of the underlying ideas of different operations research techniques accordingly a large number of comprehensive solved examples taken from a variety of fields have been added in every chapter and they are followed by a set of unsolved problems with answers and hints wherever required through which readers can test their understanding of the subject matter the book in its present form contains around 650 examples 1 280 illustrative diagrams

this book elucidates the basic concepts and applications of operations research written in a lucid well structured and easy to understand language the key topics are explained with adequate depth and self explanatory flow charts a wide range of solved examples and end of chapter exercises makes this book an ideal companion for active

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