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# Operations Research: A Model-Based Approach

*H. A. Eiselt, Carl-Louis Sandblom*

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**H. A. Eiselt, Carl-Louis Sandblom : Operations Research: A Model-Based Approach** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Operations Research: A Model-Based Approach:

0 of 2 people found the following review helpful. Three Stars By Roger A. Pace A little harder than I expected for a good read.

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.

From the reviews: "This course resource by Eiselt *et al.* is an introduction to operations research at the undergraduate level. The book introduces a wide variety of deterministic and stochastic operations research models, including linear and integer programming, network flows, facility location problems, machine scheduling problems, inventory models, queuing models, and discrete event simulation models. *et al.* Summing Up: Recommended. Business and industrial engineering collections serving upper-division undergraduates." (B. Borchers, *Choice*, Vol. 48 (3), November, 2010) "The book gives an overview of the operations research models applied in many practical problems. *et al.* The book is a great contribution to the OR models' application and can be a significant help to the decision makers." (Kristina Scaron, *Zentralblatt MATH*, Vol. 1198, 2010) From the Back Cover The book covers the standard models and techniques used in decision making in organizations. The main emphasis of the book is on modeling business-related scenarios and the generation of decision alternatives. Fully solved examples from many areas are used to illustrate the main concepts without getting bogged down in technical details. The book presents an approach to operations research that is heavily based on modeling and makes extensive use of sensitivity analyses. It is a result of many years of combined teaching experience of the authors. The second edition adds new material on multicriteria optimization, postman problems, Lagrangean relaxation, cutting planes, machine scheduling, and Markov chains. Support material is found on a free website and includes some algorithms, additional fully solved problems and slides for instructors. About the Author Marianne and H.A. Eiselt have spent many years walking trails in North America and Europe, and they have co-written several guides on New Brunswick, including the first and second editions of their popular hiking guide to New Brunswick. In between hiking seasons they teach at the University of New Brunswick in Fredericton.