



Elementary Linear Programming with Applications (Computer Science & Scientific Computing Series)

Bernard Kolman, Robert E. Beck

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Linear programming finds the least expensive way to meet given needs with available resources. Its results are used in every area of engineering and commerce: agriculture, oil refining, banking, and air transport. Authors Kolman and Beck present the basic notions of linear programming and illustrate how they are used to solve important common problems. The software on the included disk leads students step-by-step through the calculations. The **Second Edition** is completely revised and provides additional review material on linear algebra as well as complete coverage of elementary linear programming. Other topics covered include: the Duality Theorem; transportation problems; the assignment problem; and the maximal flow problem. New figures and exercises are provided and the authors have updated all computer applications. The companion website on www.elsevierdirect.com contains the student-oriented linear programming code SMPX, written by Professor Evar Nering of Arizona State University. The authors also recommend inexpensive linear programming software for personal computers.

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* More review material on linear algebra * Elementary linear programming covered more efficiently * Presentation improved, especially for the duality theorem, transportation problems, the assignment problem, and the maximal flow problem * New figures and exercises * Computer applications updated * Companion website on www.elsevierdirect.com with the student-oriented linear programming code SMPX, written by Professor Evar Nering of Arizona State University * New guide to inexpensive linear programming software for personal computers

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