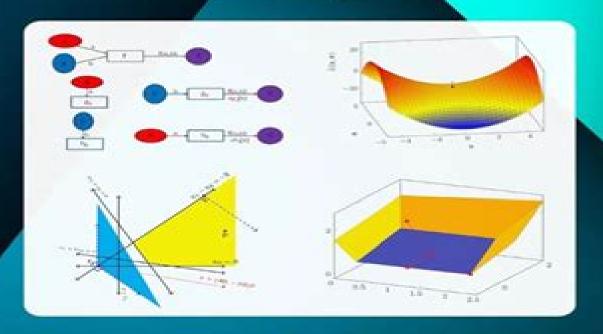
# LINEAR OPTIMIZATION AND DUALITY

A Modern Exposition



Craig A. Tovey



# **Linear Programming Duals Modern Exposition**

**Ronald E. Miller** 

# **Linear Programming Duals Modern Exposition:**

**Linear Programming with Duals** Craig A. Tovey, 2017-06-15 This textbook presents a theoretical treatment of linear programming network flows and applications integer programming and computational complexity. The author includes a rigorous discussion of theory numerous examples and exercises and geometric intuitive explanations He also offers computational tips and interpretation of software input Unlike other books this text incorporates duality throughout its chapters rather than treating it as an add on topic It also discusses computational complexity theory which can be used to classify problems according to the appropriate solution method **Linear Optimization and Duality Craig A.** Tovey, 2020-12-15 Linear Optimization and Duality A Modern Exposition departs from convention in significant ways Standard linear programming textbooks present the material in the order in which it was discovered Duality is treated as a difficult add on after coverage of formulation the simplex method and polyhedral theory Students end up without knowing duality in their bones This text brings in duality in Chapter 1 and carries duality all the way through the exposition Chapter 1 gives a general definition of duality that shows the dual aspects of a matrix as a column of rows and a row of columns The proof of weak duality in Chapter 2 is shown via the Lagrangian which relies on matrix duality The first three LP formulation examples in Chapter 3 are classic primal dual pairs including the diet problem and 2 person zero sum games For many engineering students optimization is their first immersion in rigorous mathematics Conventional texts assume a level of mathematical sophistication they don t have This text embeds dozens of reading tips and hundreds of answered questions to quide such students Features Emphasis on duality throughout Practical tips for modeling and computation Coverage of computational complexity and data structures Exercises and problems based on the learning theory concept of the zone of proximal development Guidance for the mathematically unsophisticated reader About the Author Craig A Tovey is a professor in the H Milton Stewart School of Industrial and Systems Engineering at Georgia Institute of Technology Dr Tovey received an AB from Harvard College an MS in computer science and a PhD in operations research from Stanford University His principal activities are in operations research and its interdisciplinary applications He received a Presidential Young Investigator Award and the Jacob Wolfowitz Prize for research in heuristics He was named an Institute Fellow at Georgia Tech and was recognized by the ACM Special Interest Group on Electronic Commerce with the Test of Time Award Dr Tovey received the 2016 Golden Goose Award for his research on bee foraging behavior leading to the development of the Honey **Linear Optimization and Duality** Craig A. Tovey, 2020-12-15 Linear Optimization and Duality A Modern Bee Algorithm Exposition departs from convention in significant ways Standard linear programming textbooks present the material in the order in which it was discovered Duality is treated as a difficult add on after coverage of formulation the simplex method and polyhedral theory Students end up without knowing duality in their bones This text brings in duality in Chapter 1 and carries duality all the way through the exposition Chapter 1 gives a general definition of duality that shows the dual aspects of a

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interested in structural opti mization whether they work in this field or study it for other purposes Rapid growth of interest in the cognitive aspects of optimization and the increasing demands that the present day engineer has to meet in modern design have created the need of a monographic treatment of the subject The vast number and wide range of structural optimization problems formulated and investigated in the last twenty years call for an attempt to sum up the pres ent state of knowledge in this domain and to outline the directions of its further development The present authors undertook this task hoping that the result would stimulate further work towards finding new methods and solutions and increasing the range of applications of the optimization methods to structural design The immediate aim of the book is to present the basic criteria and methods of optimization and to provide a reference guide to the most important publications in the field The book consists of fourteen chapters Chapter 1 introduces the basic concepts definitions and assumptions relating to structural optimization Chapter 2 gives the foundations of optimization for minimum elastic strain potential or maximum rigidity and sets a basis for optimization of bar plate and lattice structures Chapter 3 presents criteria of strength design and their applications to plane structures <u>Linear Programming</u> Romesh Saigal,1995-11-30 Presents a unified approach to the study of boundary simplex and interior point methods for linear programming Derives both classes of methods from the complementary slackness theorem with the duality theorem derived from Farkas lemma which is proved as a convex separation theorem Offers a new and inductive proof of Kantorovich's theorem related to the convergence of Newton's method and discusses the primal the dual and the primal dual affine scaling methods the polynomial barrier method and the projective transformation method Includes a chapter on background material for the study of boundary methods and a chapter detailing new methods using LQ factorization and iterative techniques Can be used as a text in a one or two semester advanced graduate course on linear programming Annotation copyright by Book News Inc Portland OR International Encyclopedia of Business and Management Malcolm Warner, John Paul Kotter, 2002 Nonlinear Optimization H. A. Eiselt, Carl-Louis Sandblom, 2019-11-09 This book provides a comprehensive introduction to nonlinear programming featuring a broad range of applications and solution methods in the field of continuous optimization It begins with a summary of classical results on unconstrained optimization followed by a wealth of applications from a diverse mix of fields e g location analysis traffic planning and water quality management to name but a few In turn the book presents a formal description of optimality conditions followed by an in depth discussion of the main solution techniques Each method is formally described and then fully solved using a numerical example **Applications of Modern Production Theory** Ali Dogramaci, Rolf Färe, 2012-12-06 Modern Mathematical Methods for Economics and Business Ronald E. Miller, 1972

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