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theory of linear and integer programming alexander schrijver centrum voor wiskunde en informatica amsterdam the netherlands this book describes the theory of linear and integer programming and surveys the algorithms for linear and integer programming problems focusing on complexity analysis it aims at complementing the more practically oriented books in this field a special feature is the author s coverage of important recent developments in linear and integer programming applications to combinatorial optimization are given and the author also includes extensive historical surveys and bibliographies the book is intended for graduate students and researchers in operations research mathematics and computer science it will also be of interest to mathematical historians contents 1 introduction and preliminaries 2 problems algorithms and complexity 3 linear algebra and complexity 4 theory of lattices and linear diophantine equations 5 algorithms for linear diophantine equations 6 diophantine approximation and basis reduction 7 fundamental concepts and results on polyhedra linear inequalities and linear programming 8 the structure of polyhedra 9 polarity and blocking and anti blocking polyhedra 10 sizes and the theoretical complexity of linear inequalities and linear programming 11 the simplex method 12 primal dual elimination and relaxation methods 13 khachiyan s method for linear programming 14 the ellipsoid method for polyhedra more generally 15 further polynomiality results in linear programming 16 introduction to integer linear programming 17 estimates in integer linear

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the book teaches the basics of solving equations and inequalities in easily understandable
 language one of the main topics is the solving of quadratic equations regardless of whether
 they already exist in normal form or have to be brought into it first the author treats the p q
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