

Aspects of Semidefinite Programming

Interior Point Algorithms and Selected Applications

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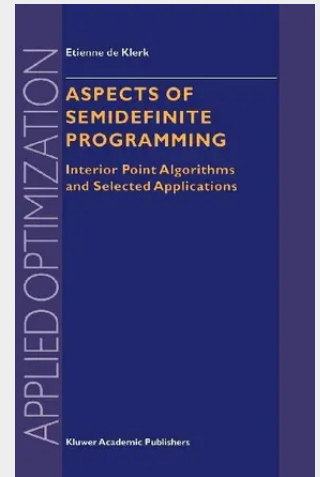
In this monograph the basic theory of interior point algorithms is explained. This includes the latest results on the properties of the central path as well as the analysis of the most important classes of algorithms. Several "classic" applications of semidefinite programming are also described in detail. These include the Lovász theta function and the MAX-CUT approximation algorithm by Goemans and Williamson.

Audience: Researchers or graduate students in optimization or related fields, who wish to learn more about the theory and applications of semidefinite programming.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781402005473

Medium: Buch

ISBN: 978-1-4020-0547-3

Verlag: Humana

Erscheinungstermin: 31.03.2002

Sprache(n): Englisch

Auflage: 1. Auflage 2002

Serie: Applied Optimization

Produktform: Gebunden

Gewicht: 1340 g

Seiten: 288

Format (B x H): 160 x 241 mm

