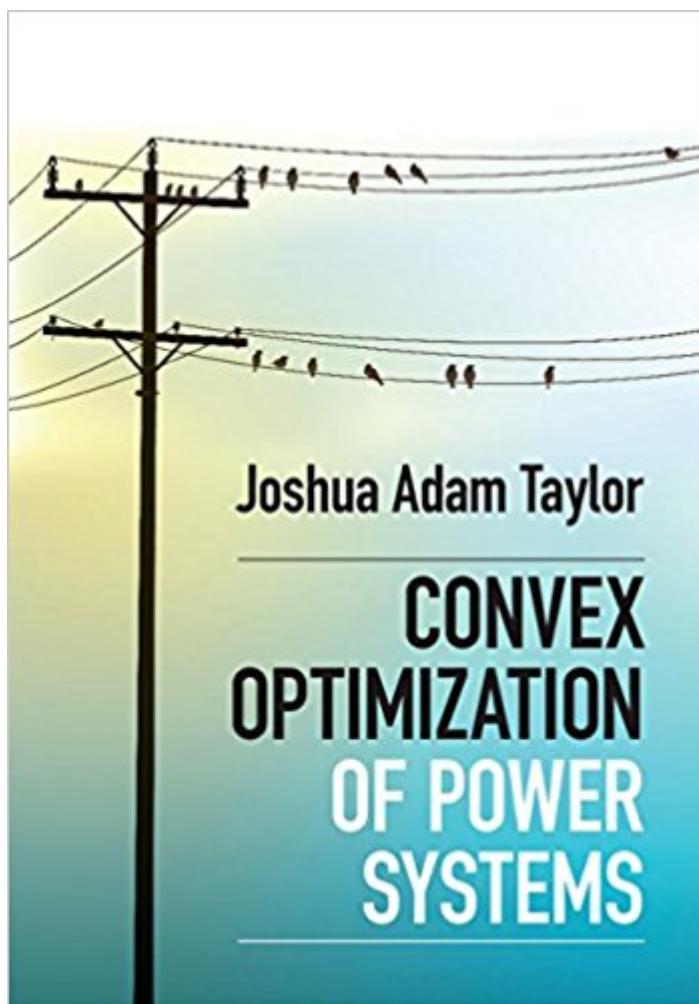


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Convex Optimization Of Power Systems



Synopsis

Optimization is ubiquitous in power system engineering. Drawing on powerful, modern tools from convex optimization, this rigorous exposition introduces essential techniques for formulating linear, second-order cone, and semidefinite programming approximations to the canonical optimal power flow problem, which lies at the heart of many different power system optimizations. Convex models in each optimization class are then developed in parallel for a variety of practical applications like unit commitment, generation and transmission planning, and nodal pricing. Presenting classical approximations and modern convex relaxations side-by-side, and a selection of problems and worked examples, this is an invaluable resource for students and researchers from industry and academia in power systems, optimization, and control.

Book Information

File Size: 8470 KB

Print Length: 213 pages

Simultaneous Device Usage: Up to 4 simultaneous devices, per publisher limits

Publisher: Cambridge University Press; 1 edition (February 28, 2015)

Publication Date: February 17, 2015

Sold by: Digital Services LLC

Language: English

ASIN: B00SYVZ9AS

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #530,237 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #12 in Kindle Store > Kindle eBooks > Nonfiction > Science > Mathematics > Applied > Linear Programming #138 in Books > Science & Math > Mathematics > Applied > Linear Programming #278 in Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Electricity Principles

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