

Taylor, Joshua Adam. *Convex Optimization of Power Systems*. Cambridge CB2 8BS, United Kingdom: Cambridge University Press, 2015, 197 pp. \$95.00 (Hardbound).

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 such as 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 book is an invaluable resource for students and researchers from industry and academia in power systems, optimization, and control.

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