

# Geometric Programming for Circuit Optimization

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- [gp\\_ispd.pdf](#)

Related material:

- [Digital Circuit Optimization via Geometric Programming](#)
- [A Tutorial on Geometric Programming](#)
- [Geometric Programming Applications to EDA Problems \(DATE 2005 tutorial\)](#)
- [A Heuristic for Optimizing Stochastic Activity Networks with Applications to Statistical Digital Circuit Sizing](#)

This tutorial concerns a method for solving a variety of circuit sizing and optimization problems, which is based on formulating the problem as a geometric program (GP), or a generalized geometric program (GGP). These nonlinear, constrained optimization problems can be transformed to convex optimization problems, and then solved (globally) very efficiently.

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