

Optimal Power Flow Using Evolutionary Algorithms

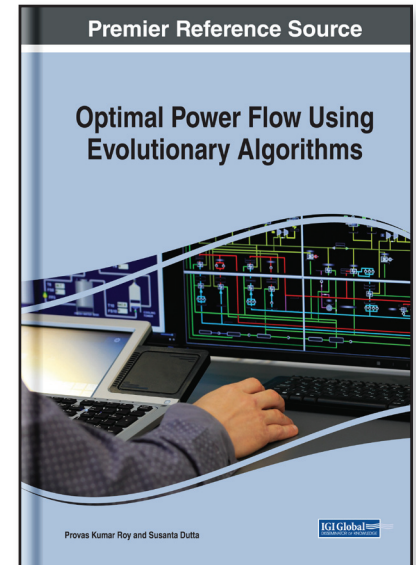
Part of the Advances in Computer and Electrical Engineering Book Series

Provas Kumar Roy (Kalyani Government Engineering College, India)
and Susanta Dutta (Dr. B. C. Roy Engineering College, India)

Description:

In today's society, modern power grids are driven closer to transfer capacities due to increased consumption and power transfers, endangering the security of the systems. Providing methods in controlling variables to minimize costs, transmission loss, and voltage deviation of power system operation yields valuable economic information and insight into power flow.

Optimal Power Flow Using Evolutionary Algorithms provides emerging research exploring the theoretical and practical aspects of optimizing power system operation through advanced electronic power devices. Featuring coverage on a broad range of topics such as hybridization algorithm, power system modeling, and transmission systems, this book is ideally designed for engineers, power system developers, academicians, and researchers seeking current research on emerging techniques in achieving quality power under normal operating conditions.



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Topics Covered:

- Differential Evolution
- Economic Load Dispatch
- Hybridization Algorithm
- Learning-Based Optimization
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- Opposition-Based Learning
- Power System Modeling
- Simulation
- Static Models
- Transmission Systems

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