

Power System SCADA and Smart Grids

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Automation of electric power systems has increased worldwide, optimizing the use of available natural resources and leading to greener power. Although SCADA (supervisory control and data acquisition) systems are used extensively for power system automation, these systems are largely proprietary, with very few technical details available. This book bridges this gap, providing a complete guide to SCADA and the automation of power systems. The book includes many practical examples, providing readers with a clear understanding of how to automate systems.

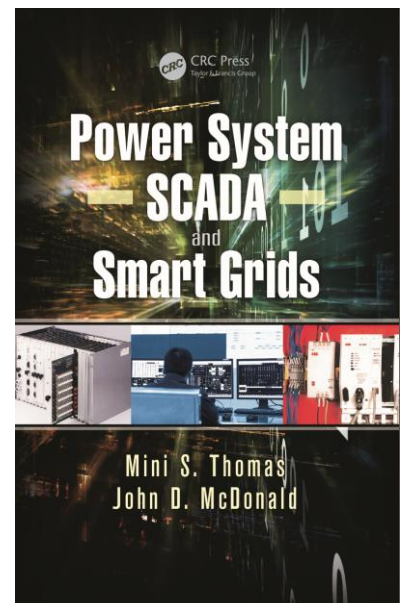
Key Features

- Provides a complete guide to SCADA (supervisory control and data acquisition) and the automation of power systems
- Explains SCADA fundamentals, including RTUs, IEDs, master stations, and HMI
- Discusses the importance of automation, acceptance of standards, interoperability, and the need for integration of communications systems
- Explains the concepts of smart grid, smart transmission, and smart distribution
- Includes numerous case studies and practical examples

Selected Contents

Power System Automation. SCADA Fundamentals. SCADA Communication. Transmission SCADA Systems. Distribution SCADA Systems. Smart Grid Concepts.

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