

Microgrids (MGs) provide a promising solution by enabling localized control over energy generation, storage, and distribution. This paper presents a novel reinforcement learning (RL)-based ...

Advanced microgrid (MG) is a likely model for reaching the goal of 100% renewable grid. A complete advanced MG control must steer the power flow in grid-connected mode; regulate...

The state of the art on microgrid operation typically considers a flat and static partition of the power system into microgrids that are coordinated via either centralized or distributed control ...

This paper proposed a complete control strategy for advanced microgrids capable of performing precise grid power flow control, converters power sharing, unbalance compensation, and ...

MG control methods can be categorized as centralized, decentralized, or distributed, as shown in Fig. 1.2. A short explanation of these control structures is given below. A central controller ...

This review focuses on existing control methods, particularly those addressing frequency and voltage stability, energy management, threat mitigation and explores a spectrum of engineering ...

This thesis discusses the concepts of centralized and decentralized control of MG, where the main chapters introduce different control methods and PE interfaces that are involved in the microgrid ...

This article aims to provide a comprehensive review of control strategies for AC microgrids (MG) and presents a confidently designed hierarchical control approach divided into ...

Managing frequency, voltage, and power dynamics in microgrids under varying conditions, however, poses significant challenges. This paper proposes an adaptive, data-driven secondary control ...

Effective control systems are essential for ensuring smooth integration, managing energy storage systems, and maintaining microgrid safety. In this study, a review of recent control methods ...

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