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Title: Smart grids and their communication systems

Generated on: 2026-06-29 07:06:56

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In this paper, we provide a comprehensive and up-to-date survey on the communication technologies used in the smart grid, including the communication requirements, physical layer technologies, ...

Clearly, modern communication and information technology will play an important role in managing, controlling, and optimizing different functional and smart devices and systems in a smart grid.

Table 1 presents an overview of the communication technologies relevant to smart grids, including wireless and wired communication methods, IoT and edge computing, artificial intelligence ...

The book presents a broad overview of emerging smart grid technologies and communication systems, offering a helpful guide for future research in the field of electrical ...

Modern power grid infrastructures are currently managing these aspects, though their outdated configuration results in rigid and inefficient operation. The emerging technology of Smart ...

Explore the key aspects of Smart Grid Communication, including protocols, technologies, and benefits that enhance energy management.

After providing the background of the communication paradigm in SGs, a comprehensive survey of the major issues related to the architectures, the key technologies, and the requirements of ...

This paper describes the various communication technologies available and their limitations and advantages for different grid operational processes, aiming to assist the discussion between ...

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