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Title: Communication Technology for Smart Microgrids

Generated on: 2026-04-21 11:43:39

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The concept of microgrids (MGs) as compact power systems, incorporating distributed energy resources, generating units, storage systems, and loads, is widely acknowledged in the ...

Various wireless communication technologies such as Zigbee, LoRaWAN, 5G, and satellite communications are evaluated based on their capabilities and shortcomings when used in smart ...

In this paper, the communication technology, architectural design, cutting-edge applications, and protocols of IoT-assisted SG systems are comprehensively reviewed. The main ...

The present study involves the development of a data-driven decision-making strategy based on performance evaluation of various wireless network technology options to optimally select ...

This paper explores the role of advanced communication techniques in SGs, focusing on how technologies like IoT sensors and smart meters enhance energy distribution, promote ...

This chapter discusses the capabilities of various wired and wireless communication technologies specified in the respective standards for selecting the best suited technology for an application.

Different communication techniques in microgrids, including wireless and wired techniques, are discussed, and standards and protocols in smart grids are summarized. Finally, the importance of ...

Smart grid communication technologies integrate advanced digital communication systems with traditional power networks, transforming them into dynamic, responsive infrastructures that...

In this view, this paper first reviews various state-of-the-art developments related to smart grids and then provides extensive insights into communication standards and technologies, issues/challenges, and ...



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