

PIENAAR ENERGY (PTY) LTD

Master of Distributed Generation and Microgrid



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Optimal allocation of distributed generation for planning master...

This study proposes a novel problem formulation for a planning distributed generation (DG) allocation for microgrids, using the master-slave approach. In the previous planning studies, all ...

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Recent control techniques and management of AC microgrids: A ...

Summary Distributed generation is considered as a key component of the emerging microgrid (MG) concept, enabling the integration of renewable sources in a distributed network. The MG has been ...



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Distributed Control Strategies for Microgrids: A Critical Review of

The surging growth of the global energy demand, rapid depletion of fuel reserves, and, most importantly, increasing global warming trends have been the major concerns for decision ...

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Optimizing Distributed Generation in DC Microgrids: A

...

The entire study contributes significantly to the advancement of distributed generation (DG) integration, which is necessary to establish a sustainable and resilient energy environment. It ...

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Optimum management of microgrid generation containing distributed

In recent years, the financial and energy crises have made the economical and safe operation of distribution microgrids one of the main challenges for operators. In this regard, the ...

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Optimal operation of distributed generation and storage



In this study, biogeography algorithms and gene algorithms were utilized to achieve the optimal utilization of distributed generation resources of electrical and thermal devices in the ...

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Distributed Generation Planning in Multi-Energy Microgrids

Distributed Generation (DG) plays a pivotal role, but integrating it at scale poses challenges. Microgrids are a viable solution, and this review introduces their core concepts, emerging trends, and ...

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Smart Grid Systems and Technologies, Master of Engineering, ...

Master of Engineering in Smart Grid Systems and Technologies covers electric utility, renewable, distributed generation, electrical and microgrid power systems.

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Distributed Generation Planning in Multi-Energy Microgrids



This review focuses on Distributed Generation Planning within Multi-Energy Microgrids (MES), a transformative approach where various energy forms like electricity, heat, and cooling ...

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Decentralized Multilayer Master-Slave Control Strategy for Power

DC microgrid clusters are effective solutions for integrating multiple autonomous subgrids at the same and different voltage levels. In such a system, global power management is an essential ...



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