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This is the final report for the Power Systems Engineering Research Center (PSERC) project "Microgrid Protection and Control" (project T-18). The authors express their appreciation for the support provided by the PSERC industrial members and by the National Science Foundation

This manuscript details a design method for a 500 kW solar power based microgrid system for space applications. The design method utilizes multiobjective optimization with the genetic algorithm considering four parameters that characterize solar power based microgrids (battery voltage, photovoltaic (PV) maximum

power, PV maximum power point voltage, and number of ...

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The global population growth and large use of fossil fuels-based generators have caused many greenhouse gases, mainly in the form of CO<sub>2</sub> emissions, and led to tremendous environmental harm [1] the global breakdown of emissions by sector, agriculture is the fourth biggest source of CO<sub>2</sub> with 12.68 % [2].Also, over 70 % of freshwater is withdrawn ...

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