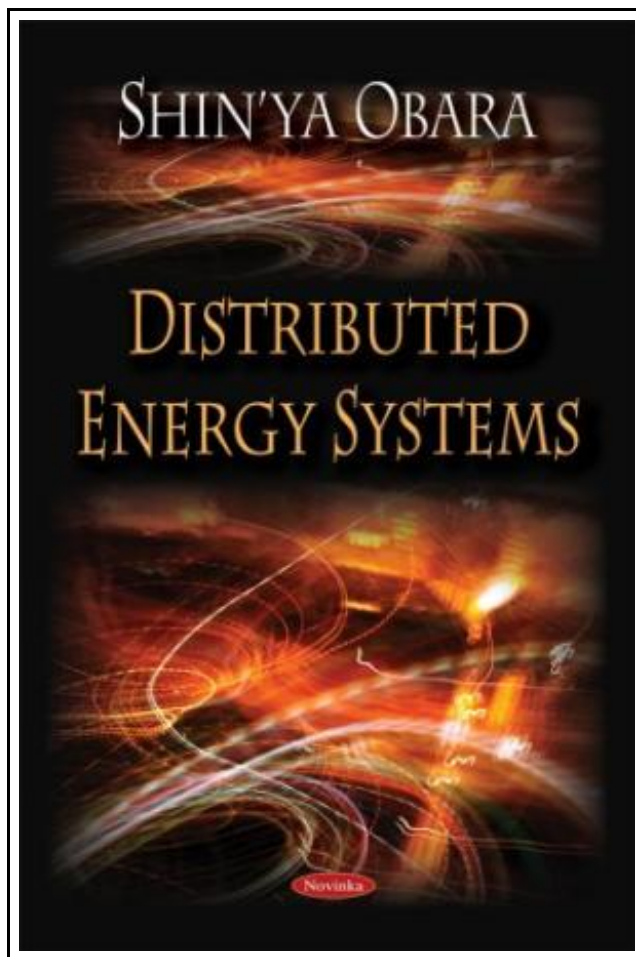


Distributed Energy Systems



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Reviews

Extensive manual! Its such a great read. It really is loaded with knowledge and wisdom You wont really feel monotony at at any time of your time (that's what catalogs are for regarding if you ask me).

(Myrl Hintz)

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Nova Science Publishers Inc. Paperback. Book Condition: new. BRAND NEW, Distributed Energy Systems, Shin'ya Obara, From deregulation of energy business, and an environmental problem, the installation spread of the small-scale distribution power due to a fuel cell and a heat engine is expected. Under the objective function set up by the designer or the user, optimisation planning that controls small-scale distribution power is required. In dynamic operation planning of the energy plant, the analysis method using mixed integer linear programming is developed. For the compound energy systems of solar modules and fuel cell cogeneration, there have been no reports of the optimisation of operation planning. Therefore, there are no results showing the relationship between the objective function given to the combined system and operation planning. Such as a solar modules or wind power, green-energy equipment is accompanied by the fluctuation of an output in many cases. Almost all green energy equipment requires backup by commercial power, fuel cells, heat engines, etc. Operation planning of the system that utilises renewable energy differs by the objective function and power and heat load pattern. Thus, this book investigates the operation planning of the compound energy system composed of proton exchange membrane fuel cell cogeneration with methanol steam-reforming equipment, a solar module, geo-thermal heat pump, heat storage, water electrolysis equipment, commercial power, and a kerosene boiler. In such a complex energy system, facility cost is expensive. However, in this book, it investigates as a case of the independent power source for backlands with renewable energy. This book considers the operation planning of a system, and the optimisation of equipment capacity. The Genetic Algorithm (hereafter described as GA) applicable to a non-linear problem with many variables is installed into the optimisation calculation of the operation planning of the system. In the operation analysis of a complex energy...



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