



processes



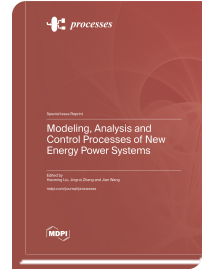
Special Issue Reprint

Modeling, Analysis and Control Processes of New Energy Power Systems

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Edited by
Haoming Liu
Jingrui Zhang
Jian Wang

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Countries all over the world regard the development of new energy represented by wind power and photovoltaic power as the key way to achieve low-carbon and green development. The scale of global new energy power generation continues to grow, and the integration of high-penetration new energy will become the basic feature and development trend of power systems worldwide. The power generation principle, control strategy, and grid connection mode of new energy units such as wind power and photovoltaic power are significantly different from those of traditional power units. The fluctuation in new energy and the high proportion of power electronic devices bring new challenges to new energy power systems, including the spatio-temporal mismatch of power supply and load, as well as the stability and security of power systems. In order to overcome these challenges, they require that the modeling, analysis, and control methods of power systems can adapt to the transformation of power systems. This reprint aims to promote state-of-the-art research in “Modeling, Analysis and Control Processes of New Energy Power Systems”. The published articles mainly cover original research on the economic planning and operation of new energy power systems, the stability analysis and control of new energy power systems, and the modeling of power equipment.



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