Special Issue

Power Transmission Line Simulation

Message from the Guest Editors

It is clear that the electromagnetic environment of power networks is becoming increasingly complex, with new challenges that need addressing. This Special Issue is concerned with the development of new models and simulation techniques for power networks together with interfacing techniques of different simulation tools, to cover one or more of the issues before exposed. Papers that address electricity security will be particularly welcomed. Topics of interest for this Special Issue include but are not limited to:

- Simulation of power transmission line electromagnetic transients;
- Numerical modelling;
- New modelling techniques in frequency and time domain to simulate power networks involving phenomena with a wide range of frequencies;
- Multiphysics simulations;
- Co-simulation of transmission–distribution–communication models;
- Aging of structures due to electrical and mechanical stress;
- Hard and soft fault detection techniques;
- HVDC and HVAC networks;
- Online power network diagnosis techniques;
- EMI and IEMI;
- Lightning strikes.

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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