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Overvoltage Protection of Electrical Networks

Guest Editors:

Prof. A. Manu Haddad

Advanced High Voltage
Engineering Research Centre,
Cardiff University, The Parade,
Cardiff CF24 3AA, UK

Prof. Pantelis N. Mikropoulos

High Voltage Laboratory, School
of Electrical and Computer
Engineering, Faculty of
Engineering, Aristotle University
of Thessaloniki, 54124
Thessaloniki, Greece

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Message from the Guest Editors

Dear Colleagues,

Overvoltage surges can be limited using simple spark gaps or more effectively using high performance modern zinc oxide ZnO surge arresters. The process of designing, selecting, and applying surge overvoltage protection schemes requires an improved understanding of the fault mechanism or lightning surge mechanism attachment to the circuit, the propagation criteria of the surge along the network, the design aspects of the electricity network and its equipment, the insulation withstand level, and the performance of the earthing system. In addition, the surge overvoltage device needs to be designed, selected, and positioned adequately for an effective overvoltage limitation and the protection of valuable equipment. The aim of such protection is to achieve insulation coordination for the system that is both effective and economical. An acceptable risk of failure of the system can result when the stress on the system versus the strength of its components are considered in the context of insulation coordination.

Prof. A. Manu Haddad

Prof. Pantelis N. Mikropoulos

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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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