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Design and Testing of Power Cable System

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Message from the Guest Editors

The substantial growth of cable HV interconnections has prompted researchers to investigate the degradation factors of the dielectric materials used in these systems. Dielectrics in AC and DC cables experience ageing phenomena that are worth of investigation due to the high costs associated to the failures of such infrastructures. In particular, HVDC systems early diagnosis poses a great challenge due to the lack of standardization and consolidated technologies for testing. This Special Issue welcomes studies on the state of the art of new methodologies for cable fault and pre-fault analysis, PD analysis in HVDC cables, innovative cables design, and possible changes of cables structures with the aim to improve and facilitate PEA and PD measurements. Apart from original research articles related to the topic, studies on the effect of the polarity reversal and transient overvoltage phenomena in the lifetime of power cables are also welcome. Finally, due to their ease of use, wireless AC PD detection methods, as well as fault detection and localization approaches, will be considered of interest.



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Special Issue



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Message from the Editor-in-Chief

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