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Condition Monitoring and Reliability Assessment of Power Transformers

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Message from the Guest Editors

Dear Colleagues,

Power transformers are one of the most important and critical components in power system networks. During its long service life, the transformer undergoes various stresses (electrical, mechanical, thermal, chemical etc.) which eventually degrade its dielectric as well as mechanical characteristics. The deterioration of transformer insulation characteristics reduces its dielectric strength, whereas winding deformation can result in internal faults. Gradual degradation of insulation characteristics and winding faults within the transformer during its service life can result in catastrophic failure and subsequently power interruption at the consumer's end. The undesired interruption of power supply affects the production rate in heavy industries, which may result in huge monetary loss. In order to ensure a reliable power supply, the condition of transformers should be assessed regularly through employing advanced monitoring techniques. This Special Issue will cover the investigation of dielectric and mechanical characteristics of power transformers which are in service for a long period and are on the verge of ending their operating life.

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Message from the Editor-in-Chief

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