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高电压技术

变压器分接开关油中溶解气体的在线监测

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摘要

对变压器分接开关实施油中溶解气体的在线监测，有助于正确判断分接开关的故障状态和发展趋势，降低分接开关的维护成本，并提高变压器运行的安全性和可靠性。介绍油中溶解气体在线监测的特点，从取气法、检测器及监测对象三方面总结了国内外油中溶解气体在线监测技术的发展动向及应用实例，以期为日后实施变压器分接开关油中溶解气体的在线监测提供理论依据和参考。

关键词 变压器；分接开关；溶解气体分析；在线监测；传感器

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On-Line Monitoring of Oil-Dissolved Gas for Transformer Tap Changing Switch

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Abstract

The implementation of on-line monitoring of oil-dissolved gas for transformer tap changing switch contributes to correctly judge the faulty condition and extending trend of tap changing switch, to reduce the maintenance cost of tap changing switch as well as to improve the operational security and reliability of transformer. The authors present the features of on-line monitoring of oil-dissolved gas; in three aspects, i.e., the approach to collect gas, the detector and the monitored object, the on-line monitoring technology of oil-dissolved gas home and abroad, the developing trend of this technology and practical application examples are summarized in the hope of providing theoretical basis and reference for the implementation of on-line monitoring of oil-dissolved gas for transformer tap changing switch.

Key words transformer；tap changing switch；dissolved gas analysis；on-line monitoring；sensors

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