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Polymer Nanocomposites - Fundamentals and possible applications to Power Sectors

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Abstracts

Polymer nanocomposites are emerging superior dielectrics developed to improve electrical insulation systems of power apparatus and cables. Such advanced materials are excellent in that they can be obtained from conventional polymers or plastics, which are converted into novel materials by adding inorganic nano fillers. They have been exhaustively and critically surveyed on their fundamental material and dielectric characteristics to show present and future applications in the power sectors. Risk assessment of nano fillers is also reported.