

409. Title:Terahertz spectroscopy as a new tool for insulating material analysis and condition monitoring

Authors:Fuse, Norikazu (1); Takahashi, Tsuguhiro (1); Ohki, Yoshimichi (2); Sato, Ryo (2); Mizuno, Maya (3); Fukunaga, Kaori (3)

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Abstract:New nondestructive internal condition monitoring methods using terahertz waves are reviewed. The experimental spectra are sensitive to material morphology and originate from dielectric resonance responses. Numerical simulation based on density functional theory visualizes the resonance modes..