Abstracts

Microwave Effects on Thermoluminescence and Thermally Stimulated Exoelectron Emission (Short Papers)

D.R. Elle, D.J. Fehringer, R.J. Vetter and P.L. Ziemer. "Microwave Effects on Thermoluminescence and Thermally Stimulated Exoelectron Emission (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.12 (Dec. 1973 [T-MTT] (1973 Symposium Issue)): 836-837.

In a pilot study to determine phosphor response after microwave exposure, a reduction in the expected amount of light emitted during thermoluminescent (TL) analysis was observed after exposure to microwave radiation of a phosphor preirradiated with cobalt-60 gamma radiation. Investigation of the thermoluminescent response of some high dielectric-constant materials after microwave exposure revealed the fading phenomenon in the powdered and ceramic states of the phosphors.

❑ Return to main document.