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Thermal diffusivity and conductivity in low-conducting materials: a new technique

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Abstract A comparative method is presented, suitable to measure both thermal diffusivity and conductivity of lowconducting solids. The repeatibility of the measurements of thermal conductivity is 3%, whereas for diffusivity is 6%. Data for some low-conducting materials are given, consistent with those reported in the literature.

Key words low-conducting materials - thermal conductivity thermal diffusivity

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