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

Original

Availability:
This version is available at: 11583/1405998 since:

Publisher:
Springer

Published
DOI:

Terms of use:
This article is made available under terms and conditions as specified in the corresponding bibliographic description in the repository

Publisher copyright

(Article begins on next page)
Thermal diffusivity and conductivity in low-conducting materials: A new technique

A. Sparavigna, M. Omini, A. Pasquarelli and A. Strigazzi

(1) Dipartimento di Fisica, Politecnico di Torino, CISM and INFN, Unità di Torino, Corso Duca degli Abruzzi 24, 10129 Torino, Italy

Received: 22 April 1991

Abstract A comparative method is presented, suitable to measure both thermal diffusivity and conductivity of low-conducting solids. The repeatability 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

References secured to subscribers.