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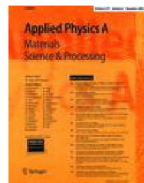
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Thermal diffusivity and Biot number: A new experimental method

Journal Applied Physics A: Materials Science & Processing
 Publisher Springer Berlin / Heidelberg
 ISSN 0947-8396 (Print) 1432-0630 (Online)
 Issue Volume 50, Number 1 / January, 1990
 Category Solids And Materials
 DOI 10.1007/BF00323951
 Pages 35-37
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1. Sparavigna, A. (1990) High-sensitivity capacitance method for measuring thermal diffusivity and thermal expansion: Results on aluminum and copper. *International Journal of Thermophysics* 11(6) [CrossRef]

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Received: 30 January 1989 Accepted: 15 February 1989

Abstract A new simple method is presented for measuring thermal diffusivity and Biot number in cylindrical samples made of relatively highly conducting materials, subjected to laminar air flow. The basic idea is a heat source in the middle section of the sample, acting also as a thermocouple; only one additional temperature sensor at the cylinder basis is required to give all information, without requiring any hypothesis about the effective time dependence of the heat source.

PACS 65 - 44.10.+i - 44.50.+f

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