Bestimmung thermophysikalischer Daten flüssiger hochschmelzender Metalle mit schnellen Pulsaufheizexperimenten

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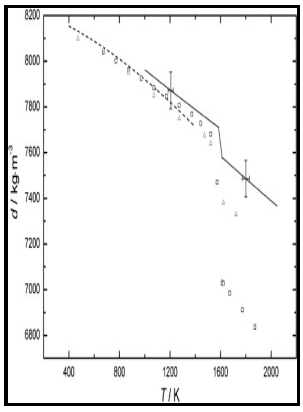

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Filesize: 31.64 MB

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Ermittlung thermophysikalischer Kennwerte und thermomechanischer Eigenschaften

Frederikse, eds, CRC Handbook of Chemistry and Physics CRC Press, Boca Raton, Ann Arbor, London, Tokyo, 1993- 1994.

Electrical Resistivity and Thermodynamic Properties of Dense Tungsten Plasma

Thermophysikalische Kenngrößen In den thermophysikalischen und thermomechanischen Laboren des Fraunhofer IWM werden mit modernsten Verfahren temperaturabhängige Materialeigenschaften untersucht.

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The only way to measure temperature in the time and temperature range of these experiments duration of a few tens of microseconds, temperatures up to 7000 K is optical pyrometry. Effects that can falsify the results are discussed.

Electrical Resistivity and Thermodynamic Properties of Dense Tungsten Plasma, International Journal of Thermophysics

Wadle, Die Bestimmung thermophysikalischer Daten flüssiger hochschmelzender Metalle mit schnellen Pulsaufheizexperimenten Verlag Dr.

Electrical Resistivity and Thermodynamic Properties of Dense Tungsten Plasma

The influence of nonuniform electric fields on the measurement of the electrical conductivity in pulse-heated wires is studied analytically. Two causes for nonuniformity are considered: switching-on of an external voltage source transient skin effect and temperature-dependent change of the electrical conductivity. Jaeger, Conduction of Heat in Solids Clarendon Press, Oxford, 1973.

Electrical Resistivity and Thermodynamic Properties of Dense Tungsten Plasma, International Journal of Thermophysics

E 64 056403 Occurrence Handle10. Because normal spectral emissivity measurements on pulse heated liquid metals were not possible in the past, an assumption about the behavior of the emissivity in the liquid phase had to be made, which increased the uncertainty of the temperature determination. Auf der Probenoberseite misst ein Infrarotdetektor den zeitlichen Temperaturanstieg.

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