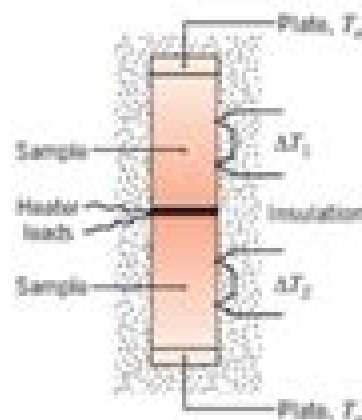




## Problem



An apparatus for measuring thermal conductivity employs an electrical heater sandwiched between two identical samples of diameter 30 mm and length 60 mm, which are pressed between plates maintained at a uniform temperature  $T_0 = 77^\circ\text{C}$  by a circulating fluid. A conducting grease is placed between all the surfaces to ensure good thermal contact. Differential thermocouples are imbedded in the samples with a spacing of 15 mm. The lateral sides of the samples are insulated to ensure one dimensional heat transfer through the samples.



(a) With two samples of SS316 in the apparatus, the heater draws 0.353A at 100 V, and the differential thermocouples indicate  $\Delta T_1 = \Delta T_2 = 25.0^\circ\text{C}$ . What is the thermal conductivity of the stainless steel sample material? What is the average temperature of the samples? Compare your result with the thermal conductivity value reported for this material in Table A.1.

# Fundamentals Of Heat Mass Transfer 7th Edition Solutions P

**Joel L. Plawsky**



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*ASME Proceedings of the 7th AIAA/ASME Joint Thermophysics and Heat Transfer Conference: Phase change heat transfer. Boiling heat transfer and heat pipes. Nonlinear two-phase flow*, 1998

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**Handbook of Heat Transfer** Warren M. Rohsenow, James P. Hartnett, Young I. Cho, 1998-05-22 This wholly revised edition of a classic handbook reference written by some of the most eminent practitioners in the field is designed to be your all in one source book on heat transfer issues and problem solving It includes the latest advances in the field as well as covering subjects from microscale heat transfer to thermophysical properties of new refrigerants An invaluable guide to this most crucial factor in virtually every industrial and environmental process Applied Mechanics Reviews, 1987

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