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Chapter 2, Problem 17P



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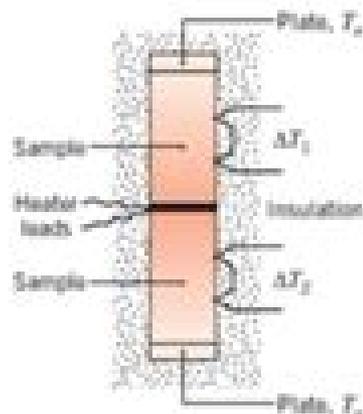
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## Problem



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.

# Heat Mass Transfer 7th Solution

**D Kirk**



**Heat Mass Transfer 7th Solution :**

## Unveiling the Magic of Words: A Overview of "**Heat Mass Transfer 7th Solution** "

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Heat Mass Transfer 7th Solution** ," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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