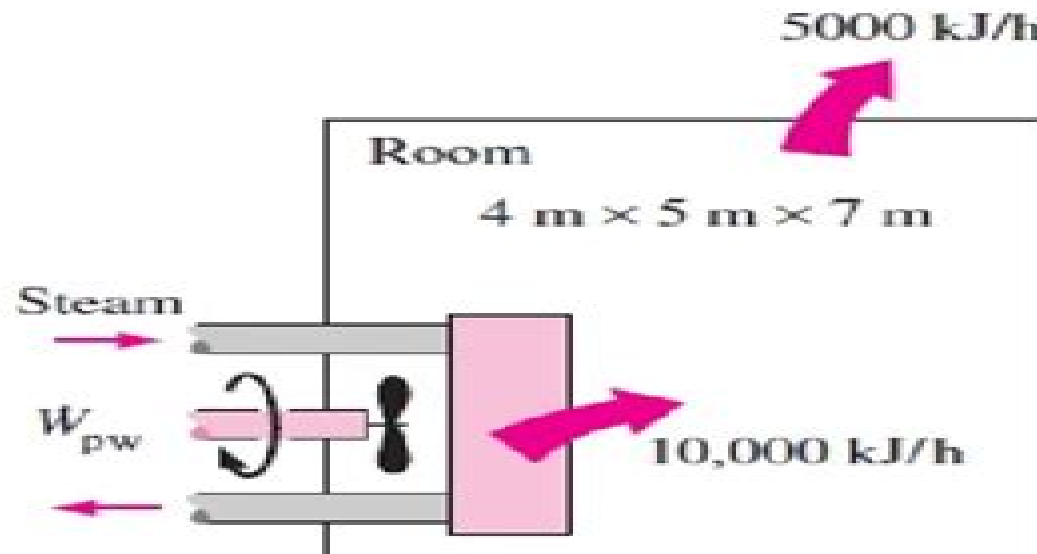


A $4\text{ m} \times 5\text{ m} \times 7\text{ m}$ room is heated by the radiator of a steam heating system. The steam radiator transfers heat at a rate of $10,000\text{ kJ/h}$ and a 100-W fan is used to distribute the warm air in the room. The heat losses from the room are estimated to be at a rate of about 5000 kJ/h . If the initial temperature of the room air is 10°C , determine how long it will take for the air temperature to rise to 20°C . Assume constant specific heats at room temperature.



Step-by-Step
Solution



Report
Solution (<https://holooly.com/report-a-problem/>)

A room is heated by the radiator, and the warm air is distributed by a fan. Heat is lost

from the room. The time it takes for the air temperature to rise to 20°C is to be

Heat Transfer A Practical Approach Solution Manual

M. Necati Özışık



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