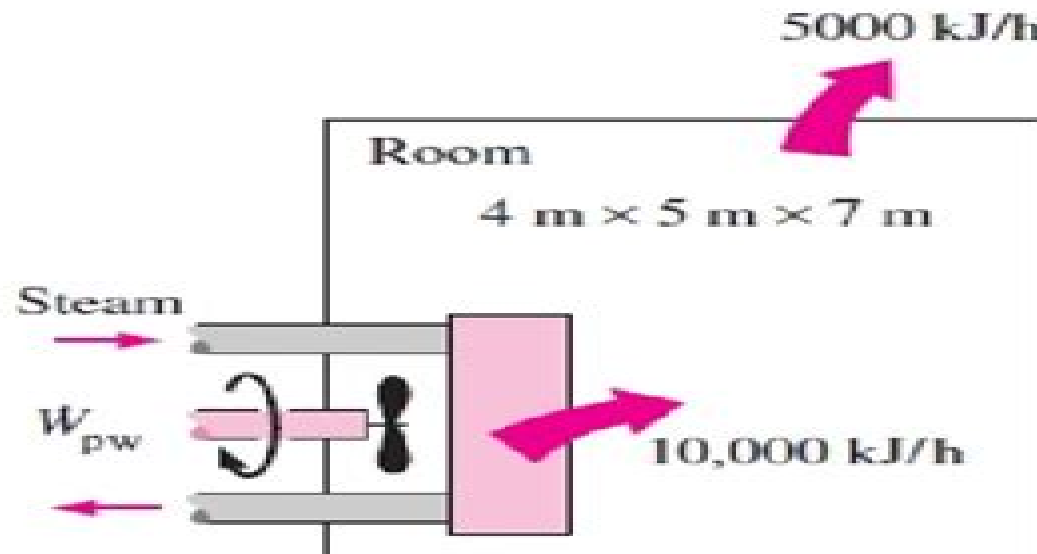


A $4\text{ m} \times 5\text{ m} \times 7\text{ m}$ room is heated by the radiator of a steam heating system. The steam radiator transfers heat at a rate of $10,000\text{ kJ/h}$ and a 100-W fan is used to distribute the warm air in the room. The heat losses from the room are estimated to be at a rate 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.



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

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J Elliott



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Inverse Heat Transfer Problems Oleg M. Alifanov, 2012-12-06 This research monograph presents a systematic treatment of the theory of the propagation of transient electromagnetic fields such as optical pulses through dielectric media which exhibit both dispersion and absorption The work divides naturally into two parts Part I presents a summary of the fundamental theory of the radiation and propagation of rather general electromagnetic waves in causal linear media which are homogeneous and isotropic but which otherwise have rather general dispersive and absorbing properties In Part II we specialize to the propagation of a plane transient electromagnetic field in a homogeneous dielectric Although we have made some contributions to the fundamental theory given in Part I most of the results of our own research appear in Part II The purpose of the theory presented in Part II is to predict and to explain in explicit detail the dynamics of the field after it has propagated far enough through the medium to be in the mature dispersion regime It is the subject of a classic theory based on the research conducted by A Sommerfeld and L **Analytical Heat Transfer - Solutions Manual** Taylor & Francis

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Mechanical Engineering News ,1974 **Journal of Heat Transfer** ,1964 **Heat transfer** James Sucec,1985

Fluid Mechanics Bijay Sultanian,2015-07-28 Fluid Mechanics An Intermediate Approach addresses the problems facing engineers today by taking on practical rather than theoretical problems Instead of following an approach that focuses on mathematics first this book allows you to develop an intuitive physical understanding of various fluid flows including internal compressible flows with s *Heat Conduction: Solutions Manual* Kakac,1993-10-01 *Scientific and Technical Aerospace Reports* ,1995

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