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Incropera is the Clifford and Evelyn Brosey Professor of Mechanical Engineering at the University of Notre Dame, Indiana, US. A Fellow of American Society of Mechanical Engineers, Incropera is known for his contributions to the field of heat transfer, especially in the context of radiation

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Heat Transfer Incropera is an American mechanical engineer and author on the subjects of mass and heat transfer.

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ASSUMPTIONS: (1) Steady-  
state conditions, (2)  
Negligible heat transfer  
from the wire by natural  
convection or radiation.

ANALYSIS: If all of the  
electric energy is  
transferred by convection to

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the air, the following  
equality must be satisfied.  
 $P_{elec} = I_h A \Delta T$  where  
 $A = \pi D L = \pi (0.0005 \text{ m}) (0.02 \text{ m})$   
 $= \times 3.14 \times 10^{-5} \text{ m}^2$ . Hence,  
##### ( )

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from discrete heat sources  
in a rectangular channel FP  
Incropera, JS Kerby, DF  
Moffatt, S Ramadhyani  
International Journal of  
Heat and Mass Transfer 29  
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and physical principles  
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Although the empirical treatment of fluid flow and heat transfer in porous media is over a century old,



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only in the last three decades has the transport in these heterogeneous systems been addressed in detail. So far, single-phase flows in porous media have been treated or at least formulated satisfactorily, while the subject of two-phase flow and the related heat-transfer in porous media is still in its infancy. This book identifies the principles of transport in porous media and compares the available predictions based on theoretical treatments of various transport mechanisms with the existing experimental results. The theoretical treatment is

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based on the volume-averaging of the momentum and energy equations with the closure conditions necessary for obtaining solutions. While emphasizing a basic understanding of heat transfer in porous media, this book does not ignore the need for predictive tools; whenever a rigorous theoretical treatment of a phenomena is not available, semi-empirical and empirical treatments are given.

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