



Heat Transfer

By Adrian Bejan

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Relates introductory heat transfer concepts to other disciplines, namely thermodynamics and fluid mechanics. Reflects changes currently taking place in the research community as well as engineering education. Emphasizes that real applications tend to be interdisciplinary and require a solid foundation in all areas of the thermal sciences. Emphasizes design, or the synthesizing of two or more issues into an answer with practical meaning. Design questions are drawn from many diverse areas and each question is presented in a fundamental way. Makes a strong case regarding the use of simple and approximate analyses, focusing on order-of-magnitude calculations or "scale analysis". Applications are interdisciplinary.

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Editorial Review

From the Publisher

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From the Back Cover

Laminar air flow through plate fins in the microchannel heat sink built into the back of an integrated circuit chip. This figure shows the pressure distribution; the corresponding temperature distribution is shown on the front cover, where the flow direction is upward. The Reynolds number based on the swept length of the plate fin is 150. The optimization of a related microchannel geometry is proposed in Project 6.4 in the text.

Users Review

From reader reviews:

Marcus Galvan:

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