



Microscale and Nanoscale Heat Transfer: Fundamentals and Engineering Applications

By C.B. Sobhan, G.P. Peterson

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The book discusses in detail various modern engineering applications, such as microchannel heat sinks, micro heat exchangers, and micro heat pipes. It covers methods that range from discrete computation to optical measurement techniques for microscale applications. The authors also present the fundamentals of nanoscale thermal phenomena in fluids. The text concludes with an entire chapter devoted to numerical examples of microscale conduction, convective heat transfer, and radiation as well as nanoscale thermal phenomena.

Drawing on their hands-on experience, the authors shed light on the differences to consider while developing engineering designs related to micro- and nanoscale systems.

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- Sales Rank: #2854139 in eBooks
- Published on: 2008-06-12
- Released on: 2008-06-12
- Format: Kindle eBook

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