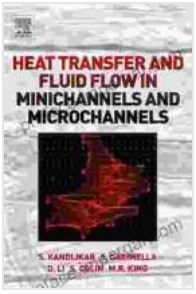
Heat Transfer and Fluid Flow in Minichannels and Microchannels: A Comprehensive Guide

In the realm of thermal management and microfluidics, the understanding of heat transfer and fluid flow in minichannels and microchannels is of paramount importance. This book, meticulously crafted by a team of renowned experts, unravels the complexities of this multifaceted field, providing an unparalleled resource for engineers, researchers, and students alike.



Heat Transfer and Fluid Flow in Minichannels and Microchannels by Dongqing Li

★★★★★ 5 out of 5

Language	: English
File size	: 24472 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 521 pages
Screen Reader	: Supported

Key Features:

- **Comprehensive Coverage:** An exhaustive exploration of the fundamental principles, governing equations, and analytical and numerical techniques related to heat transfer and fluid flow in minichannels and microchannels.
- **Cutting-Edge Research:** Delves into the latest advancements in the field, including topics like surface enhancement techniques, nanofluids,

and multiphase flow.

- **Practical Applications:** Guides readers through the practical aspects of designing and optimizing high-performance systems for various industries, from microelectronics cooling to biomedical applications.
- **Expertly Written:** Authored by a team of leading researchers with decades of experience in the field, ensuring the book's accuracy, depth, and relevance.

Benefits for Readers:

- **Enhanced Understanding:** Gain a deep comprehension of the complex phenomena governing heat transfer and fluid flow in minichannels and microchannels.
- **Design Optimization:** Equip yourself with the knowledge and tools to design and optimize high-performance systems that meet specific thermal management requirements.
- **Cutting-Edge Applications:** Stay abreast of the latest advancements in the field and explore potential applications in microelectronics cooling, biomedical devices, and beyond.
- **Career Advancement:** Advance your career by developing specialized knowledge and expertise in a rapidly growing field.

Target Audience:

This book is meticulously designed for:

- Engineers involved in thermal management and microfluidics design
- Researchers in the field of heat transfer and fluid flow

- Students pursuing graduate studies in mechanical engineering, chemical engineering, or related disciplines

Table of Contents:

About the Authors:

This book is meticulously authored by a team of esteemed experts in heat transfer and fluid flow, including:

- Dr. S. Kandlikar, Professor of Mechanical Engineering at Rochester Institute of Technology
- Dr. V. M. K. Sastri, Professor of Mechanical Engineering at Indian Institute of Technology Madras

- Dr. L. L. Vasiliev, Professor of Thermal Engineering at Moscow State University

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Unlock the secrets of heat transfer and fluid flow in minichannels and microchannels by purchasing your copy today. This invaluable resource will empower you to excel in the field and contribute to the advancement of thermal management and microfluidics innovation.

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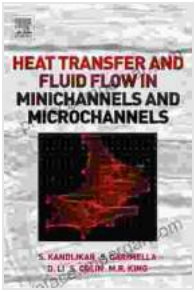

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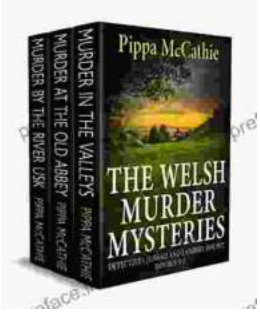

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