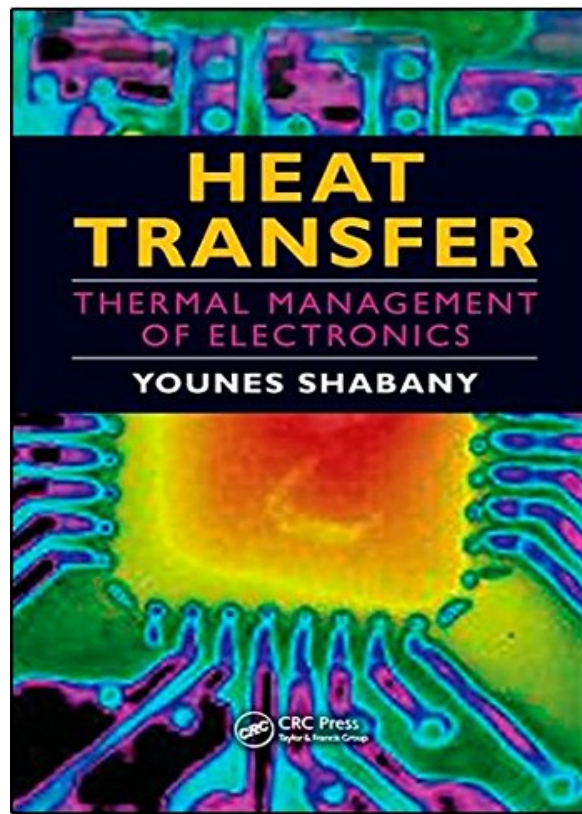
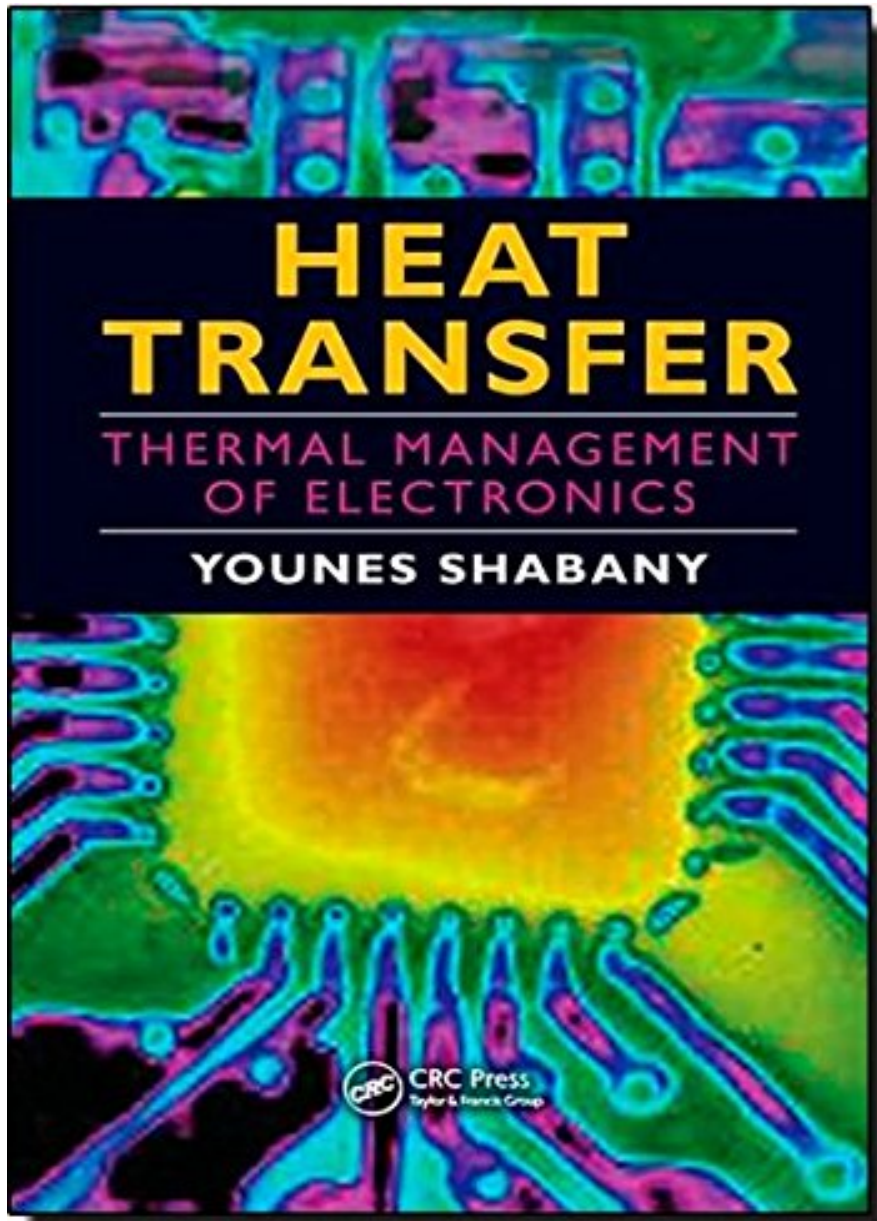


**HEAT TRANSFER: THERMAL
MANAGEMENT OF ELECTRONICS BY
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About the Author

Younes Shabany received his BS in mechanical engineering from Sharif University of Technology in Tehran, Iran, in 1991. He then went to Vancouver, Canada where he obtained his MS in mechanical engineering from the University of British Columbia in 1994. He came to the United States and received a Ph.D in mechanical engineering with a minor in aeronautics and astronautics from Stanford University, California, in 1999. Dr. Shabany has over 18 years of experience in thermal-fluid engineering. He is currently Director of Thermal Engineering & Design and Thermal Architect in Advanced Technology Group at Flextronics International USA, Milpitas, California. In this position, he has been leading thermal design activities in Flextronics' worldwide design centers on a variety of infrastructure, computing, consumer, automobile, medical, and power electronic products. Before Flextronics, he worked for Applied Thermal Technologies, Santa Clara, California, where he was the director for two years. While at Applied Thermal Technologies, he worked with over 60 companies and designed thermal solutions for about as many pieces of electronic equipment including telecom and networking equipment, desktop and laptop computers, biomedical equipment, and consumer products. Dr. Shabany has also been a lecturer at San Jose State University, California, since the summer of 2001. He has taught undergraduate and graduate courses in heat transfer and advanced mathematical analysis including his most favorite course, Heat Transfer in Electronics. He has also advised graduate students on their projects and theses.

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The continuing trend toward miniaturization and high power density electronics results in a growing interdependency between different fields of engineering. In particular, thermal management has become essential to the design and manufacturing of most electronic systems.

Heat Transfer: Thermal Management of Electronics details how engineers can use intelligent thermal design to prevent heat-related failures, increase the life expectancy of the system, and reduce emitted noise, energy consumption, cost, and time to market. Appropriate thermal management can also create a significant market differentiation, compared to similar systems. Since there are more design flexibilities in the earlier stages of product design, it would be productive to keep the thermal design in mind as early as the concept and feasibility phase.

The author first provides the basic knowledge necessary to understand and solve simple electronic cooling problems. He then delves into more detail about heat transfer fundamentals to give the reader a deeper understanding of the physics of heat transfer. Next, he describes experimental and numerical techniques and tools that are used in a typical thermal design process. The book concludes with a chapter on some advanced cooling methods.

With its comprehensive coverage of thermal design, this book can help all engineers to develop the necessary expertise in thermal management of electronics and move a step closer to being a multidisciplinary engineer.

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Good Textbook

By Stephanie

As an electrical engineering students required to take a heat transfer class, this book did the job. I took the course with the author as the professor, and I thought that this book for the most part is concise and highlights the points which engineers need to know.

Some of the later chapters seem slightly less polished. There were also some typos, but I suppose it is not the first time I have run into typos in a textbook. Overall, this book was refreshingly to-the-point compared to some of the other engineering texts I have encountered so far. An added bonus is the form factor, it's about half the size of a regular textbook which makes it easy to bring around.

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Heat Transfer - Thermal management of electronics

By Xamilla

This book is very well written, with the necessary theory and realistic examples of many different heat transfer techniques that really helps a packaging engineer to do his job correctly. The author has a thorough understanding of heat transfer and knows how to explain this in a good way.

The only thing I miss is the answers to the exercises, in order to see if I have found the correct answer.

A great book that I would use in undergraduate teaching if was giving such a course !!!

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