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Schaum's Outline Of Heat Transfer, 2nd Edition (Schaum's Outlines)



Synopsis

The ideal review for heat transfer course More than 40 million students have trusted Schaum's™ Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, Schaum's™ Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk readers through coming up with solutions to exercises in their topic of choice. 269 solved problems and 92 answered problems Outline format supplies a concise guide to the standard college courses in heat transfer Clear, concise explanations of all heat transfer concepts Complements and supplements the major heat transfer textbooks Appropriate for the following courses: Basic Heat Transfer, Engineering Heat Transfer, Introduction to Heat, Transfer, Heat Transfer, Principles of Heat Transfer Easily-understood review of heat transfer Supports all the major textbooks for heat transfer courses

Book Information

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Customer Reviews

I was struggling in this class at GA Tech after the first couple of exams, but managed an A (!!!) after studying the rest of the semester with this companion book. Heat Transfer is a difficult subject, but this book made the material a lot more approachable and easier to handle.

Don't buy this to learn Heat Transfer, its biggest asset is that it has some crystal clear definitions but the equations aren't detailed enough to gain a valuable understanding from and examples are

somewhat easy and shallow. At least for my class.

Used this as a supplementary text to try and bring in an alternative perspective to the material for my Thermals & Fluids class. I didn't actually use it during the time I was taking the class but after I skimmed through the text and it had more in the way of content than my actual textbook for the course had. I would recommend this to people who either want it to help them when learning the material or for professionals who just need a casual reference text for when they are working.

This reference fully met my needs for heat-transfer examples. It supplements Chapman 1967 and Incropera & DeWitt 1990, which do not provide answers to their end-of-chapter exercises. I particularly liked the more recent correlations for forced convection, and the examples for material with low Biot numbers..WAS

One aspect of the book I found very useful is the compilation of empirical correlations for the Nusselt number, making this book an ideal ****supplement**** to a more theoretically oriented textbook. For upper level undergraduate and the first year graduate students in an engineering major, my recommendation in this regard would be "Fundamental Principles of Heat Transfer" by Stephen Whitaker.

This book does a good job of covering all of the relevant concepts of heat transfer. I would give this 4 or 5 star rating, however the author makes mistakes in solving his own practice problems, but what's worse is the author can not even use values from his own tables correctly (for example in problem 4.3 the author uses a $cp=473$, when clearly in the table it is stated as $cp=0.473$). Errors like this are unacceptable, especially when many problems reference other problem. I have tried to reach the publisher to help correct these errors, but they have yet to get back to me.

Schaum's Outline of Heat Transfer provides practical applications of heat transfer calculations, without delving into too many details of the theory. This is a useful tool for engineers who are interested in applications. Sufficient theory and equations are presented to understand the subject and be able to perform calculations for practical applications.

This is not a book which correctly solves problems in a heat transfer course. Much less "fully" solving problems. My biggest letdown in this book is in the manner the authors solved some of the

problems in the book. Specifically problems dealing with the Biot modulus for a carbon steel sphere. It incorrectly lists the formula to solve for this type of object. It also does not show how to solve for the Biot modulus using the graphs provided. This book also incorrectly lists a method to solve for the amount of time needed to cool a heated sphere. Studying these incorrect methods caused my exam to drop a letter grade. I do not recommend this book to anyone trying to grasp the concepts in a heat transfer course. I suggest to save your money for something else that may help.

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