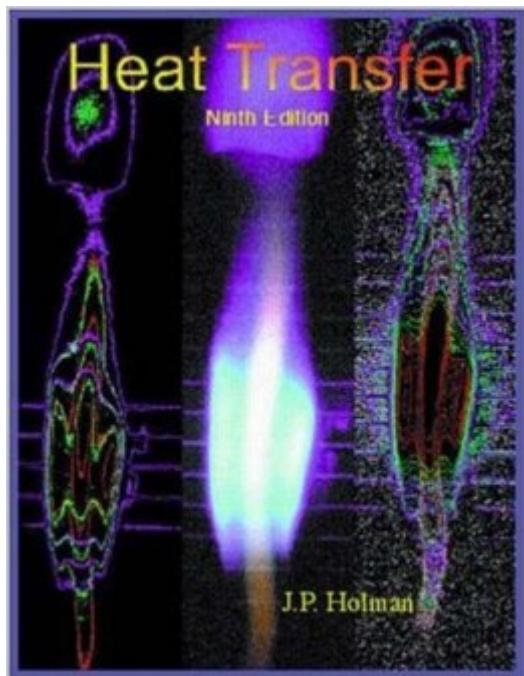


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# Heat Transfer



## Synopsis

As one of the most popular heat transfer texts, Jack Holman's **HEAT TRANSFER** is noted for its clarity, accessible approach, and inclusion of many examples and problem sets. The new Ninth Edition retains the straight-forward, to-the-point writing style while covering both analytical and empirical approaches to the subject. Throughout the book, emphasis is placed on physical understanding while, at the same time, relying on meaningful experimental data in those situations that do not permit a simple analytical solution. New examples and templates provide students with updated resources for computer-numerical solutions.

## Book Information

Series: Irwin/McGraw-Hill Series in Operations and Decision Sciences

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Average Customer Review: 3.7 out of 5 stars See all reviews (24 customer reviews)

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## Customer Reviews

The Good:- A nice amount of examples.- Whatever is explained is explained pretty well.- Friendly style of writing.The Bad:- No solution manual.- Some mistakes in the solved examples.The Worst:- There is no focus on the heat transfer science itself - the equations are "dumped" on you with no explanations/development or even some example experiments that were made to get to the equations. The focus is on application of the equations to engineering problems and methods of solving differential equations.The bottom line:This book will not give you an understanding of the heat transfer science, but the ability to solve heat transfer problems. If that's what you look for - this is your book. Otherwise, look for something else.

All I want from a textbook is a concise explanation of the principle, maybe a short derivation of the

equation, and an example or two that clearly demonstrate the applications of the theory. This book does that (although it does more derivations than I cared to read). This is the only heat transfer book I've ever used, so I can't do a comparison. I can say that I only keep about 1/4 of my textbooks, and I definitely kept this one.

Clear and concise book that describes heat transfer to its college student. Being in Mechanical Engineering, one of our course of studies is Heat Transfer. The author does a great job describing the three modes of heat transfer: conduction, convection, and radiation. There are areas that could be described better, such as shape factors and the Heisler charts, but overall a good book.

Holman's book is very good. Despite the minimal errors, his approach is very technical and well constructed. There is extensive coverage of mathematical derivations which make it very versatile for the comprehensive engineering analysis. I recommend it for beginning Heat Transfer students or as a handy reference.

The use of Microsoft Excel in this book is probably the smartest move on the part of Dr. Holman to teach Heat Transfer. The author's approach is impressively reader centered and he avoids pedantic and unnecessary over-facing analysis. Each chapter develops along very clear and logical lines. There are a wealth of examples and exercises that encourage readers to test and develop their knowledge imaginatively. Both students and practicing engineers/professionals aiming to update their knowledge will find that this book presents an accessible, interactive and challenging mastery of the subject. Again, the use of Excel spreadsheets for heat transfer is practical and invaluable to practicing professionals like myself and I wish more authors will follow suit.

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This is an awful choice for an introduction to this material. The text doesn't go into detail on the sections, and the examples can be better. Errors in the text can screw you up to.

When I was assigned the book I thought the worst thing about it was the obscene price. Then I saw the book. This is quite possibly the ugliest book cover I have ever seen. Did someone seriously pay someone else to make it? Ugh. Then I \*used\* the book. Oddly enough, I was taking two heat transfer courses at the time, a very conceptual one through the Materials Science department (Incropera text) and a very application-based one through Mechanical Engineering. [For the record, the ME course was an easy way to fulfill an MSE "tech elective" requirement.] This is the book used in the ME course. If you're actually planning to analyze heat and mass transport in your regular life, this is a great reference book, with tons of empirical formulas and constants and other wonders. If you're planning to publish papers in heat transfer, you may want to consider Frank Incropera's text to gain a solid mathematical understanding of the subject. There were several numerical errors that jumped out at me when I was using the book, especially considering that this is the ninth edition. Keep your eye for this sloppy editing and I think you'll find this book to be pretty okay.

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