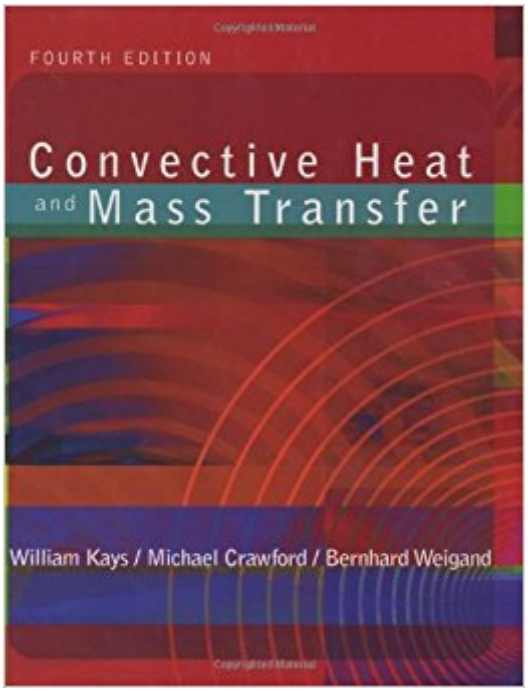
MP For Convective Heat & Mass Transfer



Synopsis

Published April 2004 The 4th edition Convective Heat and Mass Transfer continues the trend of encouraging the use of a numerically based, computational approach to solving convective heat and mass transfer problems, in addition to classical problem-solving approaches. This best-selling text also presents a strong theoretical basis for the subject of convective heat and mass transfer by focusing on boundary layer theory and provides optional coverage of the software teaching tool TEXSTAN.

Book Information

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Customer Reviews

This text needs more detail in derivations. Examples would be nice, though not expected at this level. It seems some of the resultant derivations yield equations and methods that are unnecessarily complicated. (according to my Professor and evident from text itself) Also contains to many typos and I have yet to see two that have the same cover.

This is a good book. I rather like it and it is good for the specific course. Not a lot of general information about other topics. More examples would be helpful though, even with the highly theoretical content, they could help understanding some areas.

So enthalpy is now i instead of h, Cp is c... why? who knows.I cannot understand why professors

continue to use books when they preface their class each year with a disclaimer on how the book isn't very good.Book is coupled with TEXSTAN, Crawford's heat transfer code. Some problems in each chapter use the code, but it is poorly documented and requires a lot of browsing his website in order to find all the right options. Also, some versions of the book claim to come with the software enclosed but none do -- it must be downloaded from his website and you have to get access from him.Finally, book is also rather small for the price. I'm pretty sure it's the most price/cu.in. or price/page of any textbook I own.

I teach a graduate course out of this book. Another reviewer has noted that most instructors are unhappy with most books. I think this one is concise and well written. It has significantly enhanced my understanding of the topic. The TEXSTAN code, while obtuse, is a useful tool for understanding boundary layers without requiring too much of a learning curve. It's use is significantly simpler than CFD or experiments. My students have generally been able to pick it up within a week with a bit of effort. I'm not sure why anyone who wasn't able to put in that sort of effort is bothering with graduate fluids.

To add to what a previous reviewer mentioned about enthalpy changing to i. Another question is, why explain something when you can simply say "it is easy to see that...", or just add a foot note?Derivations of the Navier-Stokes equations seem a bit backward. Heavy focus on fluids concepts, and the actual heat transfer is glazed over. In addition, fluids concepts aren't covered as well as in other texts (White, Schlichting, Panton).I feel like they are trying to sell me something with their TEXSTAN code.The book is absurdly expensive for being a baked version of the 1970's edition.

Transfer Computational Fluid Mechanics and Heat Transfer, Third Edition (Series in Computational and Physical Processes in Mechanics and Thermal Sciences) Introduction to Thermal Sciences: Thermodynamics, Fluid Dynamics, Heat Transfer Computational Fluid Mechanics and Heat Transfer, Second Edition (Series in Computional and Physical Processes in Mechanics and Thermal Sciences) Computational Fluid Mechanics and Heat Transfer:2nd (Second) edition Introduction to Heat Transfer Handbook of Heat Transfer Radiative Heat Transfer, Third Edition Schaum's Outline of Heat Transfer, 2nd Edition (Schaum's Outlines) Introduction to Thermodynamics and Heat Transfer + EES Software