



Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics)

By Perumal Nithiarasu, Roland W. Lewis, Kankanhalli N. Seetharamu

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- Addresses fundamentals, applications and computer implementation
- Educational computer codes are freely available to download, modify and use
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Editorial Review

From the Back Cover

Heat transfer is the area of engineering science which describes the energy transport between material bodies due to a difference in temperature. The three different modes of heat transport are conduction, convection and radiation. In most problems, these three modes exist simultaneously. However, the significance of these modes depends on the problems studied and often, insignificant modes are neglected.

Very often books published on Computational Fluid Dynamics using the Finite Element Method give very little or no significance to thermal or heat transfer problems. From the research point of view, it is important to explain the handling of various types of heat transfer problems with different types of complex boundary conditions. Problems with slow fluid motion and heat transfer can be difficult problems to handle. Therefore, the complexity of combined fluid flow and heat transfer problems should not be underestimated and should be dealt with carefully.

This book: Is ideal for teaching senior undergraduates the fundamentals of how to use the Finite Element Method to solve heat transfer and fluid dynamics problems Explains how to solve various heat transfer problems with different types of boundary conditions Uses recent computational methods and codes to handle complex fluid motion and heat transfer problems Includes a large number of examples and exercises on heat transfer problems

In an era of large-scale computing, computational efficiency and easy to handle codes play a major part. Bearing all these points in mind, the topics covered on combined flow and heat transfer in this book will be an asset for practising engineers and postgraduate students. Other topics of interest for the heat transfer community, such as heat exchangers, are also included.

Users Review

From reader reviews:

Cheryl Stone:

This Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics) are reliable for you who want to certainly be a successful person, why. The main reason of this Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics) can be on the list of great books you must have is actually giving you more than just simple reading through food but feed a person with information that probably will shock your prior knowledge. This book is actually handy, you can bring it almost everywhere and whenever your conditions in the e-book and printed versions. Beside that this Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics) forcing you to have an enormous of experience like rich vocabulary, giving you trial of critical thinking that could it useful in your day exercise. So , let's have it and revel in reading.

Alice Wilkerson:

A lot of people always spent all their free time to vacation or maybe go to the outside with them friends and family or their friend. Are you aware? Many a lot of people spent they will free time just watching TV, or even playing video games all day long. If you wish to try to find a new activity here is look different you can read a book. It is really fun for yourself. If you enjoy the book that you just read you can spent 24 hours a day to reading a reserve. The book Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics) it is quite good to read. There are a lot of those who recommended this book. These folks were enjoying reading this book. In the event you did not have enough space to develop this book you can buy the actual e-book. You can m0ore very easily to read this book through your smart phone. The price is not too costly but this book possesses high quality.

Tamara Evans:

Playing with family within a park, coming to see the ocean world or hanging out with close friends is thing that usually you could have done when you have spare time, then why you don't try factor that really opposite from that. Just one activity that make you not feeling tired but still relaxing, trilling like on roller coaster you are ride on and with addition info. Even you love Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics), it is possible to enjoy both. It is good combination right, you still would like to miss it? What kind of hang type is it? Oh seriously its mind hangout people. What? Still don't have it, oh come on its named reading friends.

Kurt Bohnert:

Your reading sixth sense will not betray you actually, why because this Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics) guide written by well-known writer we are excited for well how to make book which can be understand by anyone who have read the book. Written in good manner for you, leaking every ideas and producing skill only for eliminate your own hunger then you still question Fundamentals of the Finite Element Method for Heat and Mass Transfer (Wiley Series in Computational Mechanics) as good book not just by the cover but also through the content. This is one guide that can break don't ascertain book by its deal with, so do you still needing a different sixth sense to pick this!? Oh come on your reading through sixth sense already told you so why you have to listening to a different sixth sense.

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