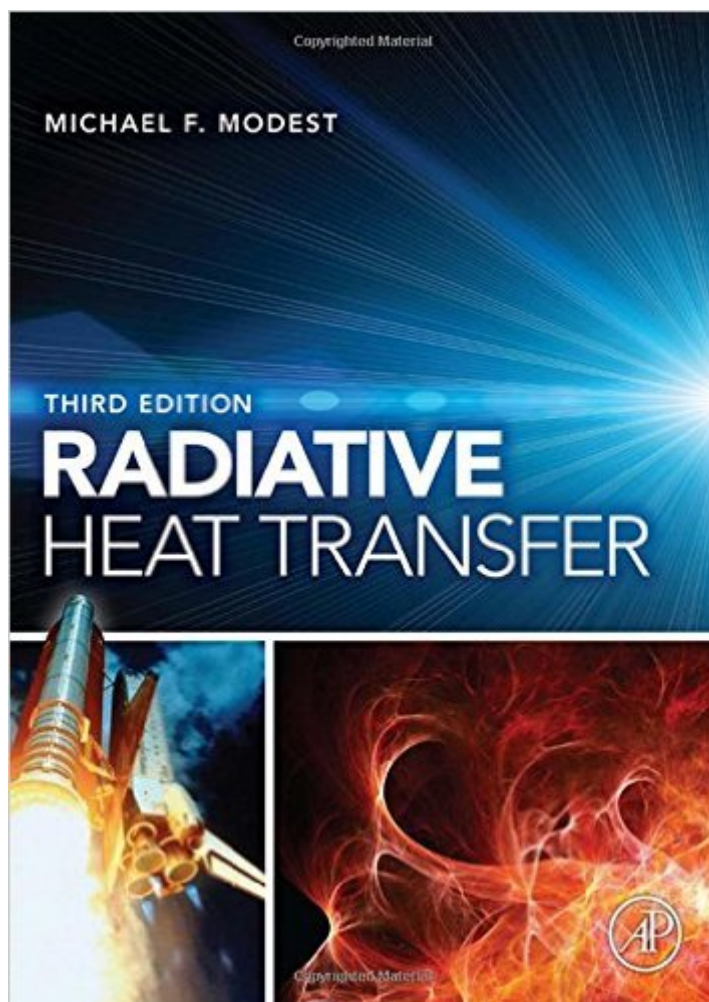


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Radiative Heat Transfer, Third Edition



Synopsis

The third edition of Radiative Heat Transfer describes the basic physics of radiation heat transfer. The book provides models, methodologies, and calculations essential in solving research problems in a variety of industries, including solar and nuclear energy, nanotechnology, biomedical, and environmental. Every chapter of Radiative Heat Transfer offers uncluttered nomenclature, numerous worked examples, and a large number of problems—many based on real world situations—making it ideal for classroom use as well as for self-study. The book's 24 chapters cover the four major areas in the field: surface properties; surface transport; properties of participating media; and transfer through participating media. Within each chapter, all analytical methods are developed in substantial detail, and a number of examples show how the developed relations may be applied to practical problems. Extensive solution manual for adopting instructors Most complete text in the field of radiative heat transfer Many worked examples and end-of-chapter problems Large number of computer codes (in Fortran and C++), ranging from basic problem solving aids to sophisticated research tools Covers experimental methods

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Customer Reviews

For anyone really interested in radiative heat transfer, especially at high temperatures, this book covers it all and the third edition has been brought fully up to date on advances in the field. I've found everything I wanted to know about gas and solids heat transfer in this text, including integrated conduction and convection heat transfer. I've found that the simple equation development from first principals on upward to advanced modeling concepts fits my study style exactly, neither

too much nor too little is covered, and all in a logical progression. The topic development is so clear and comprehensive that this is the only resource that I'll use.

This is very informative. The book is quite advanced, yet it describes radiation in a simplistic manner which builds on itself. I bought this book to study radiation in participating media (chapters 10, 21, and 22 specifically) and I am very happy with the purchase. I would highly recommend the book to anyone looking for an advanced book on radiative heat transfer.

I got this book last year and before buying it, I checked out the older version from my graduate school's library. It is very advanced textbook, covering a lot of topics and theories. The author of this book, Dr. Modest was my undergrad Heat and Mass Transfer professor at UC Merced. I really enjoyed his class. Also, last two chapters of Fundamentals of Heat and Mass Transfer undergrad text book talks about the radiative heat transfer and this book talks deeply about this concept.

I come from a Computer Graphics background and I wish I had this book years ago. I highly recommend it for the level of discussion and the mathematics presented. I particularly enjoyed the fact that it explained the Fresnel equations for non-absorbing materials (AKA metals). I was able to make a pretty decent simulation of Gold with the information in this book. As a whole, it has a ton of material in it.

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