

# Radiative Heat Transfer

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## Synopsis

Radiative Heat Transfer, Fourth Edition is a fully updated, revised and practical reference on the basic physics and computational tools scientists and researchers use to solve problems in the broad field of radiative heat transfer. This book is acknowledged as the core reference in the field, providing models, methodologies and calculations essential to solving research problems. It is applicable to a variety of industries, including nuclear, solar and combustion energy, aerospace, chemical and materials processing, as well as environmental, biomedical and nanotechnology fields. Contemporary examples and problems surrounding sustainable energy, materials and process engineering are an essential addition to this edition. Includes end-of-chapter problems and a solutions manual, providing a structured and coherent reference. Presents many worked examples which have been brought fully up-to-date to reflect the latest research. Details many computer codes, ranging from basic problem solving aids to sophisticated research tools.

## Sort review

A comprehensive reference on thermal radiation heat transfer, including models and calculations to help solve research problems across a variety of industries--This text refers to the hardcover edition. From the Back Cover The fourth edition of Radiative Heat Transfer is a fully updated and revised practical reference on the basic physics and computational tools, which scientists and researchers need to solve problems in the broad field of radiative heat transfer. This book is acknowledged as the core reference in the field, providing models, methodologies, and calculations essential in solving research problems. This makes it very applicable to a variety of industries including nuclear, solar and combustion energy, aerospace, chemical and materials processing, as well as environmental, biomedical and nanotechnology fields. The fourth edition is a significant update on the material presented in the previous editions to reflect recent theoretical and experimental developments in the field, as well as the increasing significance of radiative transfer in expanding and emerging engineering and scientific applications. Contemporary examples and problems involving radiation in combined mode heat transfer problems pertaining to sustainable energy, materials and process engineering are an essential addition to this edition, providing a cohesive and thorough coverage of the fundamentals and applications of radiative heat transfer for those in heat transfer and thermal engineering settings.--This text refers to the hardcover edition. About the Author Michael F. Modest received his PhD from the University of California, Berkeley. He is currently Distinguished Professor Emeritus at the University of California, Merced. His research interests include all aspects of radiative heat transfer; in particular heat transfer in combustion systems, heat transfer in hypersonic plasmas, and laser processing of materials. For several years, he taught at the Rensselaer Polytechnic Institute and the University of Southern California, followed

by 23 years as a Professor of mechanical engineering at The Pennsylvania State University. Dr. Modest is a recipient of the Heat Transfer Memorial award, the Humboldt Research award, and the AIAA Thermophysics award, among many others. He is an honorary member of the ASME, and an Associate Fellow of the AIAA. Sandip Mazumder received his PhD from the Pennsylvania State University, and is currently Professor at The Ohio State University. His research in radiation has primarily involved developing efficient methods for solving the radiative transfer equation and coupling it to other modes of heat transfer for practical applications. Dr. Mazumder was employed at CFD Research Corporation for 7 years prior to joining Ohio State in 2004. He is the recipient of the McCarthy teaching award and the Lumley research award from the Ohio State College of Engineering, among other awards, and is a fellow of the ASME. --This text refers to the hardcover edition. Read more

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