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Essentials of Radiation Heat Transfer

- Enriches foundational understanding of radiation heat transfer by using easy to understand language
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- Includes end-of-chapter problems and worked examples to aid learning

Essentials of Radiation Heat Transfer focuses only on the essential topics required to gain an understanding of radiation heat transfer to enable the reader to master more challenging problems. The strength of the book lies in its elaborate presentation of the powerful radiosity-irradiation method and shows how this technique can be used to solve a variety of problems of radiation in enclosures made of one to any number of surfaces in both transparent and participating media. The book also introduces atmospheric radiation in which engineers can contribute to the technology of remote sensing and atmospheric sciences in general, by a better understanding of radiation. The author has included pedagogical features such as end-of-chapter exercises and worked examples with varying degrees of difficulty to augment learning and self-testing. The book has been written in an easy-to-follow conversational style to enhance reader engagement and learning outcomes. This book will be a useful guide for upper undergraduate and graduate students in the areas of mechanical engineering, aerospace engineering, atmospheric sciences, and energy sciences.

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