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This title provides a complete introduction to the physical origins of heat and mass transfer while using problem solving methodology. The systematic approach aims to develop readers confidence in using this tool for thermal analysis.

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The de facto standard text for heat transfer - noted for its readability, comprehensiveness and relevancy. Now revised to include clarified learning objectives, chapter summaries and many new problems. The fourth edition, like previous editions, continues to support four student learning objectives, desired attributes of any first course in heat transfer: \* Learn the meaning of the terminology and physical principles of heat transfer delineate pertinent transport phenomena for any process or system involving heat transfer. \* Use requisite inputs for computing heat transfer rates and/or material temperatures. \* Develop representative models of real processes and systems and draw conclusions concerning process/systems design or performance from the attendant analysis.

Completely updated, the sixth edition provides engineers with an in-depth look at the key concepts in the field. It incorporates new discussions on emerging areas of heat transfer, discussing technologies that are related to nanotechnology, biomedical engineering and alternative energy. The example problems are also updated to better show how to apply the material. And as engineers follow the rigorous and systematic problem-solving methodology, they'll gain an appreciation for the richness and beauty of the discipline.

Fundamentals of Momentum, Heat and Mass Transfer, Revised, 6th Edition provides a unified treatment of momentum transfer (fluid mechanics), heat transfer and mass transfer. The new edition has been updated to include more modern examples, problems, and illustrations with real world applications. The treatment of the three areas of transport phenomena is done sequentially. The subjects of momentum, heat, and mass transfer are introduced, in that order, and appropriate analysis tools are developed.

Completely updated, the seventh edition provides engineers with an in-depth look at the key concepts in the field. It incorporates new discussions on emerging areas of heat transfer, discussing technologies that are related to nanotechnology, biomedical engineering and alternative energy. The example problems are also updated to better show how to apply the material. And as engineers follow the rigorous and systematic problem-solving methodology, they'll gain an appreciation for the richness and beauty of the discipline.

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