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Frank P. Incropera is an American mechanical engineer and author on the subjects of mass and heat transfer. Incropera is the Clifford and Evelyn Brosey Professor of Mechanical Engineering at the University of Notre Dame, Indiana, US. David P. DeWitt is the author of Introduction to Heat Transfer, 6th Edition Binder Ready Version, published by Wiley.

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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.

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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.

This best-selling book in the field provides a complete introduction to the physical origins of heat and mass transfer. Noted for its crystal clear presentation and easy-to-follow problem solving methodology, Incropera and Dewitt's systematic approach to the first law develop readers confidence in using this essential tool for thermal analysis. Introduction to Conduction· One-Dimensional, Steady-State Conduction· Two-Dimensional, Steady-State Conduction· Transient Conduction· Introduction to Convection· External Flow· Internal Flow· Free Convection· Boiling and Condensation· Heat Exchangers· Radiation: Processes and Properties· Radiation Exchange Between Surfaces· Diffusion Mass Transfer

"This comprehensive text on the basics of heat and mass transfer provides a well-balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems. The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved. Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem-solving, the text is written to meet the needs of undergraduate students in mechanical engineering, production engineering, industrial engineering, auto-mobile engineering, aeronautical engineering, chemical engineering, and biotechnology.

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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This book provides a comprehensive overview of the main electrical technologies for process heating, which tend to be treated separately in specialized books. Individual chapters focus on heat transfer, electromagnetic fields in electro-technologies, arc furnaces, resistance furnaces, direct resistance heating, induction heating, and high-frequency and microwave heating. The author highlights those topics of greatest relevance to a wide-ranging teaching program, and at the same time offer a detailed review of the main applications of the various technologies. The content represents a synthesis of the extensive knowledge and experience that the author has accumulated while researching and teaching at the University of Padua ' s Engineering Faculty. This text on industrial electroheating technologies is a valuable resource not only for students of industrial, electrical, chemical, and material science engineering, but also for engineers, technicians and others involved in the application of electroheating and energy-efficient industrial processes.

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