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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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This course is an introduction to the principal concepts and methods of heat transfer. The objectives of this integrated subject are to develop the fundamental principles and laws of heat transfer and to explore the implications of these principles for system behavior; to formulate the models necessary to study, analyze and design heat transfer systems through the application of these principles; to develop the problem-solving skills essential to good engineering practice of heat transfer in ...

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This text is an unbound, binder-ready edition. Introduction to Heat Transfer is the gold standard of heat transfer pedagogy for more than 30 years, with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education, research and practice. Written for courses that exclude coverage of mass transfer, the sixth edition of this text maintains its foundation in the four central learning objectives for students. With examples and problems that reveal the richness and beauty of this discipline, this text teaches students how to become efficient problem-solvers

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through the use of the rigorous and systematic problem-solving methodology pioneered by the authors. Fundamental concepts have received further emphasis in this new edition, making the text even more accessible while providing a bridge from those ideas to critical applications in areas such as energy and the environment. The Interactive Heat Transfer (IHT) software that accompanies the text has also been updated, allowing readers to solve problems even more efficiently and accurately.

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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.

This bestselling 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 develops reader confidence in using this essential tool for thermal analysis. Readers will learn the meaning of the terminology and physical principles of heat transfer as well as how to use requisite inputs for computing heat transfer rates and/or material temperatures.