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Learn the meaning of the terminology and physical principles of heat transfer

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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

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process/systems design or performance
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supplement to accompany Incropera ' s Fundamentals of Heat & Mass Transfer, 5th Edition and Introduction to Heat & Mass Transfer, 4th Edition. It contains a summary of key concepts from each chapter, fully worked solutions to representative

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problems from the text and in many cases includes exploration of a solution over a range of values using the software package Interactive Heat Transfer, v2.0. This supplement is intended to help students focus on the key concepts from the text, verify their

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solutions by comparing them to the authors' own worked solutions and use computer tools to explore the behavior of the systems in question. Each worked solution follows the structured problem solving approach from the text. Comments throughout the

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inputs for computing heat transfer rates and/or material temperatures. 3.

Develop representative models of real processes and systems. 4. Draw conclusions concerning process/systems design or performance from the attendant analysis. As a best-

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surfaces—and where heat conduction is included within the boundaries. The book also covers the radiative properties of gases and addresses energy exchange when gases and other materials interact with radiative energy, as occurs in furnaces. To make this challenging

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coefficients and mass
transfer with chemical
reaction, equipment such as
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Heat Transfer

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Transfer, and Mass Transfer

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problem solving methodology. The systematic approach aims to develop readers confidence in using this tool for thermal analysis.

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