

Heat Transfer Modeling and Applications

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A SHORT COURSE
REZA TOOSI, PH.D, P.E.
CALIFORNIA STATE UNIVERSITY, LONG BEACH

Outline

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- **Scope and Types**
- **Energy Equation**
 - Formulation
 - Conversion Mechanisms
 - Dimensionless Parameters in Heat Transfer
- **Modes of Heat Transfer**
 - Conduction, Convection, and Radiation
 - Correlations
 - Combined Modes
- **Heat Transfer in Multiple Phases**
 - Conjugate Heat Transfer
 - Composites

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