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Understand the basic mechanisms of heat transfer, which are conduction, convection, and radiation, and Fourier's law of heat conduction, Newton's law of cooling, and the Stefan– Boltzmann law of radiation Obtain the differential equation of heat conduction in various coordinate systems, and simplify it for steady one-dimensional case

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Welcome to Fundamentals of Heat Transfer Part 2. So far we have focused on heat transfer by conduction and have considered convection only as a possible boundary condition for conduction problems in part 1. we used the term convection to describe heat transfer between a surface and an adjacent fluid when they are at different temperatures. We learned also that knowledge of the convection coefficient is required to use Newton's law of cooling to determine the convective heat flux.

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Modes of Heat Transfer. Conduction In conduction, heat flows from a higher temperature region to regions of lower temperature. This occurs within solid, liquid, or gaseous mediums or between different mediums that make direct physical contact with each other. 7 "The transfer of the energy of motion between adjacent molecules conducts the heat. In a gas, the 'hotter' molecules, have greater energy and motions, and impart energy to adjacent molecules at lower energy levels.

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