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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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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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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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