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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.

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In convection, the combined action of heat conduction, energy storage, and mixing motion serve to transport energy. "Convection is most important as the mechanism of energy transfer between a solid surface and a liquid or a gas."9 "In forced-convection heat transfer, a pump, fan, or other mechanism forces a fluid to flow past a solid surface.

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The Finite Element Heat Transfer software enhances capabilities for treating steady-state and transient one- and two-dimensional conduction problems. About the Author. Frank P. Incropera is currently Matthew H. McCloskey Dean of the College of Engineering at Univeristy of Notre Dame. Professor Incropera received his B.S.M.E. from M.I.T. and his M.S.M.E. and Ph.D. from Stanford University, all in mechanical engineering. In 1998, he became the Clifford and Evelyn Brosey Professor of Mechanical ...

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