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motion of fluid enhances heat transfer in many physical situations, such as (for example) between a solid surface and the fluid.

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Convective heat transfer is one of the major types of heat transfer, and convection is also a major mode of mass transfer in fluids. Convective heat and mass transfer takes place both by diffusion - the random Brownian motion of individual particles in the fluid - and by advection , in which matter or heat is transported by the larger-scale motion of currents in the fluid.

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