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These are lecture notes for AME60634: Intermediate Heat Transfer, a second course on heat transfer for undergraduate seniors and beginning graduate students. At this stage the student can begin to apply knowledge of mathematics and computational methods to the problems of heat transfer. Thus,

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convective heat transfer solution techniques. Background A convective heat transfer course is often a part of graduate education in mechanical engineering, especially for students focusing on the thermal sciences. The thrust of the coverage of convective heat transfer in such courses is towards

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Convective Heat Transfer. Heat energy transferred between a surface and a moving fluid with different temperatures - is known as convection. In reality this is a combination of diffusion and bulk motion of molecules. Near the surface the fluid velocity is low, and diffusion dominates. At distance from the surface, bulk motion increases the influence and dominates.

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Laminar natural convection heat transfer from the vertical surface of a cylinder is a classical subject, which has been studied extensively. When the boundary layer thickness  $\delta$  is small compared to the diameter of the cylinder, Nusselt numbers may be determined by approximating the curved vertical surface as a flat plate.

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