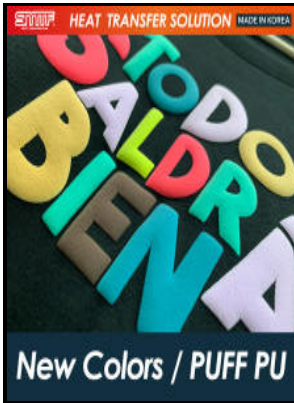


Heat Transf Sm

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Notes: -

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For small Biot numbers, the approximation of spatially uniform temperature within the object can be used: it can be presumed that heat transferred into the object has time to uniformly distribute itself, due to the lower resistance to doing so, as compared with the resistance to heat entering the object. This can be as simple as placing hot water in a bottle and heating a bed, or the movement of an iceberg in changing ocean currents.

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The temperature is 150 oC on one side of the surface and 80 oC on the other. The greater the difference between the two temperatures, the greater the evaporative cooling effect.

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What does it mean for the system to do work? If the gas is heated, it will expand and push the piston up, thereby doing work on the piston.

Complete Boiler Room Solutions

In these cases, Newton's law does not apply. That is The Power of Total Integration.

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Free, or natural, convection occurs when bulk fluid motions streams and currents are caused by buoyancy forces that result from density variations due to variations of temperature in the fluid. Now we will investigate the topic of the rate of heat transfer. In general, convection is not linearly dependent on temperature gradients, and in some cases is strongly nonlinear.

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