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This type of heat transfer is called convection. The fluid above a hot surface expands, becomes less dense, and rises. At the molecular level, the molecules expand upon introduction of thermal energy.

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CONVECTION HEAT TRANSFER

I'm now a professional engineer and encountered a heat transfer problem at work, so I bought this older (5th) edition. I remember from class that the 5th and 6th editions are incredibly similar, and some students used the older edition. Pretty much the same, even the same homework problems with different numbers.

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