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Heating, ventilation, and air conditioning (HVAC) is the technology of indoor and vehicular environmental comfort. Its goal is to provide thermal comfort and acceptable indoor air quality. HVAC system design is a subdiscipline of mechanical engineering, based on the principles of thermodynamics, fluid mechanics and heat transfer.

Heating, ventilation, and air conditioning - Wikipedia

Principles of Heat Transfer Heat is transferred to and from objects -- such as you and your home -- via three processes: conduction, radiation, and convection. Conduction is heat traveling through a solid material. On hot days, heat is conducted into your home through the roof, walls, and windows.

Principles of Heating and Cooling | Department of Energy

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Lab work on the principles of DC and AC electricity that are fundamental to the HVAC area. These include: Ohm's law, series circuits, parallel circuits, meters, wire gauges, magnetism, AC generation, AC calculations, and basic electric motor principles. Students must be simultaneously enrolled in HVAC109M.

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