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Direct Transfer Heat Exchangers

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What Makes a Heat Exchanger Complicated To Analyze

Parallel Flow and Counter Flow

Tube and Tube Heat Exchanger

Parallel Flow

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conduction

convection

radiation

flash test

conclusion

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conduction connects, it's heat by collision

convection fluid, heat by fluid movement

from hotter objects to cold

conduction connected, two objects collision

heat flows in from the warm in, to the cooler object

until the temperature is the same in both objects

the faster moving molecules

good conductors, like metal

careful of your kettle when you make tea

and radiation is electromagnetic, it's electromagnetic

the most efficient, effective

cooler areas take the place of

next up, radiation, lack of a medium

heat passes through in waves

from radio to gamma

heat waves come warm our planet

another example

high energy electrons

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calculate the rate of heat flow

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Change in Entropy

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Temperature Difference

Pipe Wall

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Effectiveness

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