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Heat transfer - Wikipedia

Invariance of the specific intensity. The area element dA emits radiation towards dA'. In the absence of any matter between emitter and receiver (no absorption and emission on the light paths between the surface elements) the amount of energy emitted and received through each surface

elements is: d.

3. Transport of energy: radiation - Institute for Astronomy

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Radiative transfer - Wikipedia

Chapter 12: Radiation Heat Transfer Radiation differs from Conduction and Convection heat t transfer mechanisms, in the sense that it does not require the presence of a material medium to occur. Energy transfer by radiation occurs at the speed of light and suffers no attenuation in vacuum.

Chapter 12: Radiation Heat Transfer - University of Waterloo

Radiative heat transfer rates are governed by the Radiative Transfer Equation (RTE), which has six dimensions (time, space, and direction) and requires knowledge of complicated wavelength-dependent properties governed by quantum-mechanical phenomena. More detail may be found in Radiative Heat Transfer, 3rd ed.

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