

Heat Transfer Processes

- summary -

Mode	Mechanism	Rate Equation	Coefficient
Conduction	<ul style="list-style-type: none">• Random molecular motion	$q'' = -k \frac{dt}{dx}$	k (W / mK)
Convection	<ul style="list-style-type: none">• Random molecular motion• Bulk motion	$q'' = h(T_s - T_\infty)$	h (W / m ² K)
Radiation	<ul style="list-style-type: none">• Electromagnetic waves	$q'' = \varepsilon \sigma (T_s^4 - T_{sur}^4)$	ε