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Two plates of the same material and thickness L are at different initial temperatures $T_{i,1}$ and $T_{i,2}$, where $T_{i,2} > T_{i,1}$. Their faces are suddenly brought into contact. The external surfaces of the two plates are insulated. (a) Let a dimensionless temperature be defined as $T^* = (T - T_{i,1}) / (T_{i,2} - T_{i,1})$. Neglecting

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