

## Introduction To Nuclear Engineering Lamarsh 3rd Edition Solutions File Type|dejavuserifb font size 10 format

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**Compression Ratio - Otto Engine.** The compression ratio, CR, is defined as the ratio of the volume at bottom dead center and the volume at top dead center. It is a key characteristics for many internal combustion engines. In the following section, it will be shown that the compression ratio determines the thermal efficiency of used thermodynamic cycle of the combustion engine.

[Macroscopic Cross-section - Neutron Nuclear Reactions](#)

**Example - Heat Loss through a Wall.** A major source of heat loss from a house is through walls. Calculate the rate of heat flux through a wall 3 m x 10 m in area ( $A = 30 \text{ m}^2$ ). The wall is 15 cm thick ( $L = 0.15 \text{ m}$ ) and it is made of bricks with the thermal conductivity of  $k = 1.0 \text{ W/m.K}$  (poor thermal insulator). Assume that, the indoor and the outdoor temperatures are  $22^\circ\text{C}$  and  $-8^\circ\text{C}$ , and the ...