

- 2.1 (a) no, shear forces present
 (b) no, system not homogeneous

3 (a) Could be, neglect contraction & assume normal force only.
 No, if true stress state with compression, tension and shear stresses are accounted for

2.2 Yes, S/E is intensive $S_2 = \lambda S_1$; $E_2 = \lambda E_1$
 $\frac{S_2}{E_2} = \frac{S_1}{E_1}$

2.3 $S = R_0 N \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{V}{V_0}\right) \left(\frac{N}{N_0}\right)^{-3/2}$

$$\frac{1}{T} = \left(\frac{\partial S}{\partial E}\right)_{V,N} = R_0 N \frac{1}{2} \left(\frac{1}{E E_0}\right)^{1/2} \left(\frac{V}{V_0}\right) \left(\frac{N}{N_0}\right)^{-3/2}$$

$$\frac{P}{T} = \left(\frac{\partial S}{\partial V}\right)_{E,N} = \frac{R_0 N}{V_0} \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N}{N_0}\right)^{-3/2}$$

$$\frac{\mu}{T} = \left(\frac{\partial S}{\partial N}\right)_{E,V} = -\frac{1}{2} \frac{R_0 N^{-3/2}}{N_0} \left(\frac{E}{E_0}\right)^{1/2} V_0^{3/2}$$

Euler's Eq $S = \frac{1}{T} E + \frac{P}{T} V + \frac{\mu}{T} N$

$$S = \frac{1}{2} R_0 N \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{V}{V_0}\right) \left(\frac{N}{N_0}\right)^{-3/2} + R_0 N \frac{V}{V_0} \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N}{N_0}\right)^{-3/2} - \frac{1}{2} R_0 N \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N_0}{N}\right)^{3/2}$$

$$S = R_0 N \frac{V}{V_0} \left(\frac{E}{E_0}\right)^{1/2} \left(\frac{N}{N_0}\right)^{-3/2} \text{ which checks the original equation}$$

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