Mod 06

gas & LOX

Assume- $P_c = 250$ psi, ARatio = 5.0 time = 20 sec

Analysis- a) on CEQUEL

b) highest performance => high Isp
this occurs at mixture ratio of 3

c) $\varepsilon = 5.0$ $^{e}/_{t}$ $P_c = 250$

$$A_t = \frac{F_v\, c^*}{Isp_v P_c\, g_o} = \text{est } F_v = 30000$$

$$A_t = \frac{30000 \times 4258}{220.9 \times 250 \times 32.2}$$

$$A_t \approx 71.83 \text{ in}^2$$