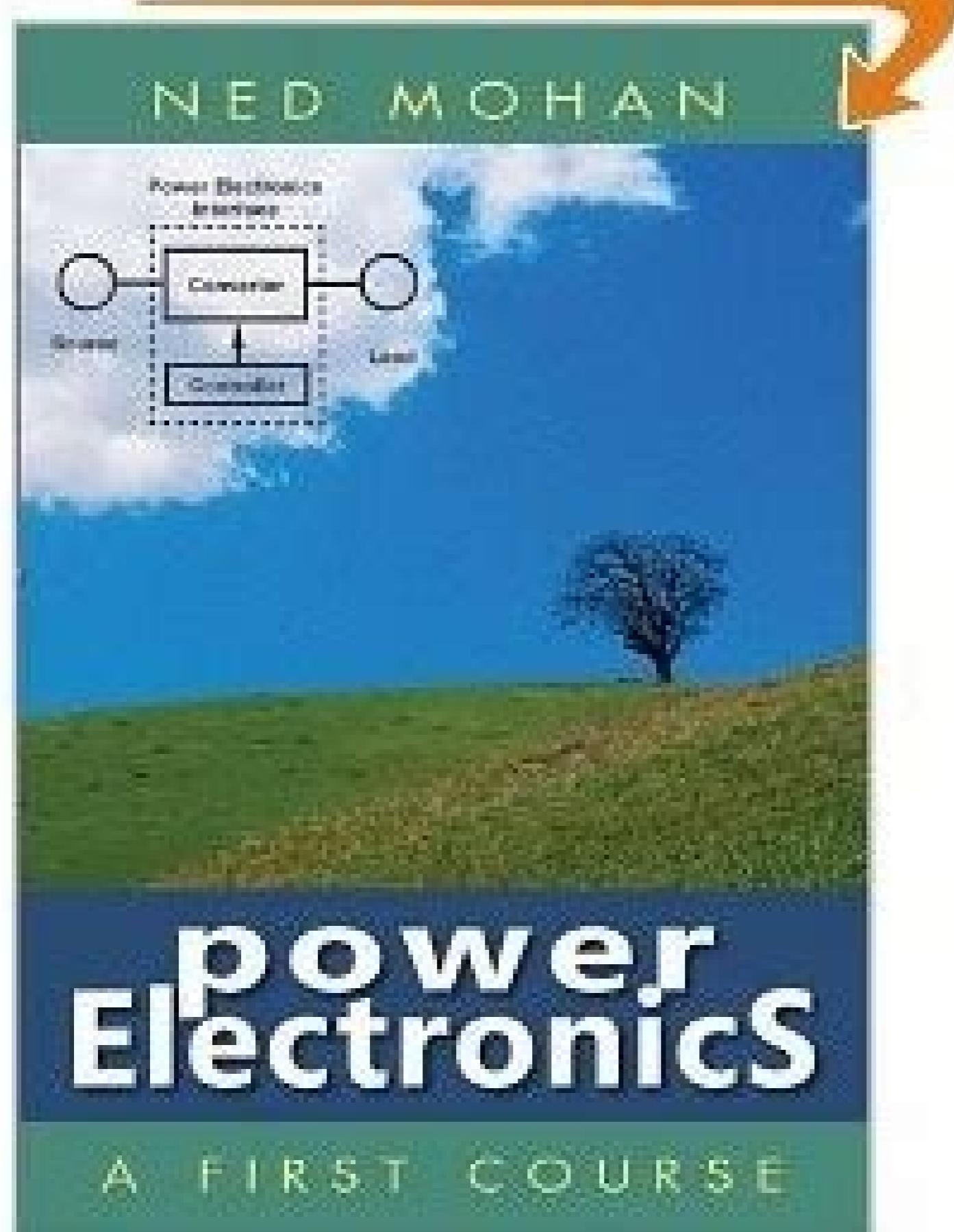


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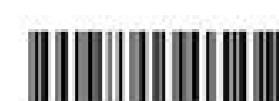
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Given: Rocket sled moving on level track without resistance
 Initial mass, $M_0 = 3000 \text{ kg}$
 (includes $m_{\text{fuel}} = 1000 \text{ kg}$)
 $t = 2500 \text{ s} ; P_e = 100 \text{ kN}$
 Fuel consumption, $\dot{m} = 75 \text{ kg/s}$

Find: Acceleration and speed of sled at $t = 10 \text{ s}$.

Note: sled speed and acceleration as functions of time.

Solution:

Apply \int component of momentum to linearly accelerating CV; use continuity to find $\dot{m}(t)$

$$\text{Basic equations: } \frac{d}{dt} \left(\int_{\text{CV}} \rho dV \right) + \int_{\text{CV}} \rho \dot{V}_e dA = 0$$

$$\dot{m}_e V_e - \int_{\text{CV}} \rho A_e V_e dA = \frac{d}{dt} \left(\int_{\text{CV}} \rho dV \right) + \int_{\text{CV}} \rho \dot{V} dA$$

Assumptions: (1) $F_{\text{ext}} = 0$, no resistance (given)

(2) $F_{\text{ext}} = 0$, horizontal

(3) neglect $\frac{dV}{dt}$ inside CV

(4) uniform flow at nozzle exit

(5) $P_e = 100 \text{ kN}$ (given)

From continuity, $0 = \frac{dV}{dt} + \dot{m} \frac{dV}{dV} = \frac{dV}{dt} + \dot{m} \frac{dV}{dV}$ or $dV = -\dot{m} dV$

Integrating, $\int_{V_0}^V dV = -\dot{m} \int_0^t dt = -\dot{m} t$ or $V = V_0 - \dot{m} t$

From the momentum equation

$$-a_m \cdot \dot{m} = -a_m (M_0 - \dot{m} t) = u_e \frac{dV}{dt} = -V_e \dot{m} \quad (\text{u.e. def})$$

thus

$$a_m = \frac{dV}{dt} = \frac{V_e \dot{m}}{(M_0 - \dot{m} t)} \quad \dots \dots \dots (1)$$

At $t = 10 \text{ s}$

$$\frac{dV}{dt} = \frac{2500 \text{ m}}{\text{s}} \cdot \frac{75 \text{ kg}}{\text{s}} \cdot \frac{1}{3000 \text{ kg} - 75 \text{ kg}/\text{s} \cdot 10 \text{ s}} = 83.3 \text{ m/s}^2 \quad \xrightarrow{\text{a.m.}}$$

From Eq. 1, $dv = \frac{V_e \dot{m}}{(M_0 - \dot{m} t)} dt$

Integrating from $V=0$ at $t=0$ to V at $t=10 \text{ s}$

$$V = -V_e \ln(M_0 - \dot{m} t) \Big|_0^{10} = -V_e \ln \frac{M_0}{M_0 - \dot{m} t} \quad (2)$$

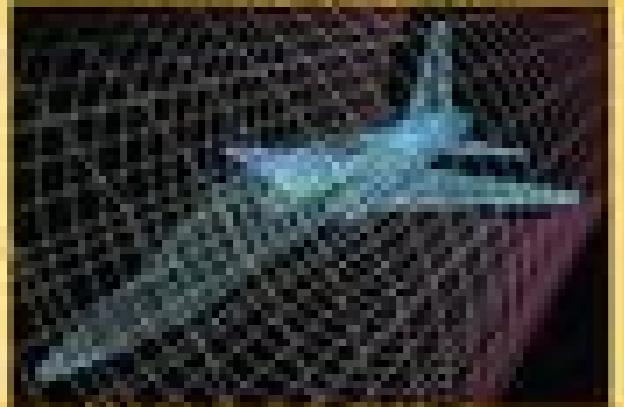
$$V = -V_e \ln \frac{M_0}{(M_0 - \dot{m} t)} \quad \dots \dots \dots (2)$$

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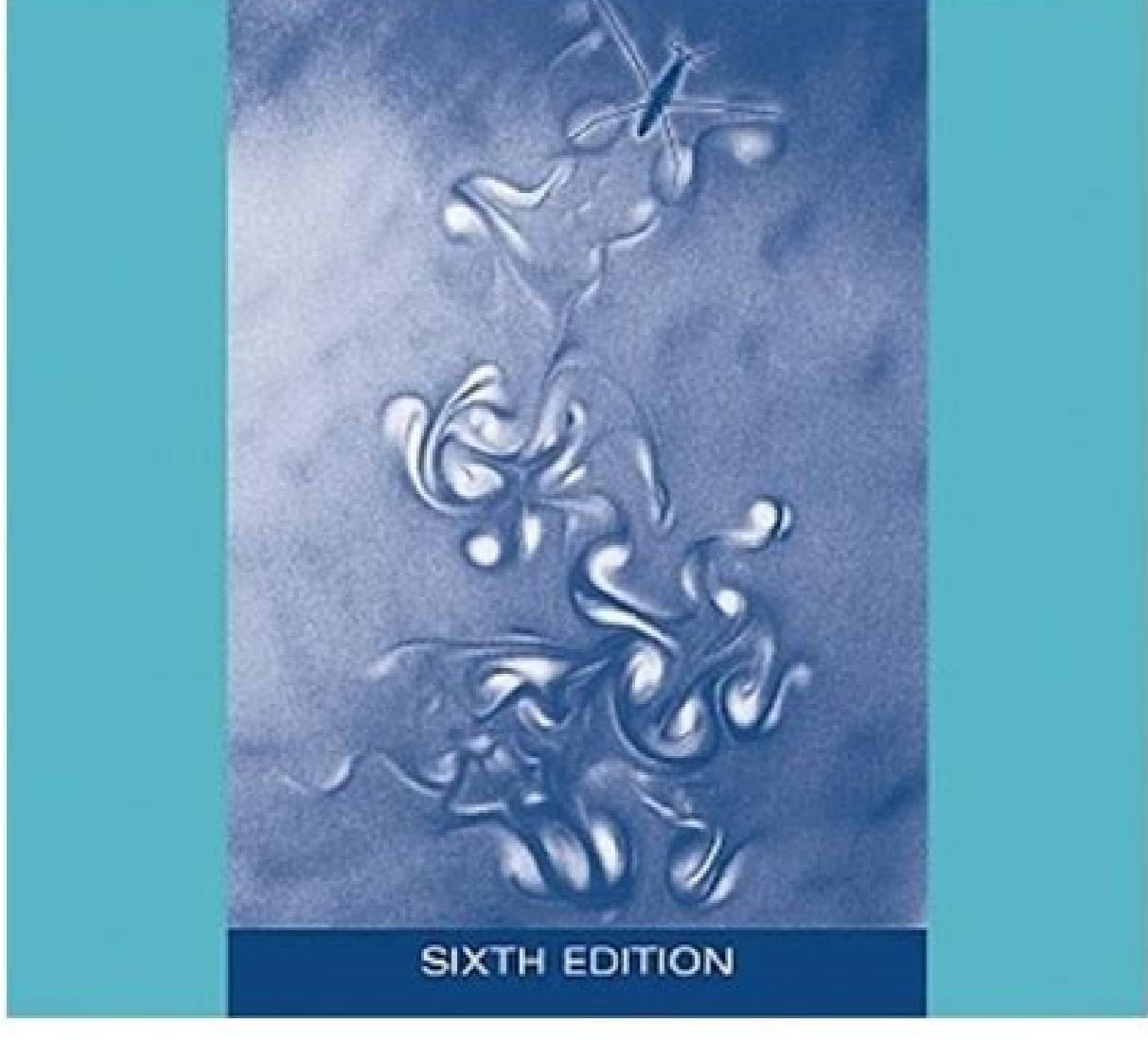
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