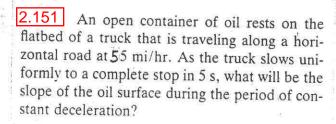
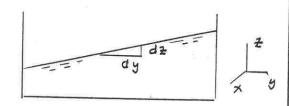
2.151



slope =
$$\frac{dz}{dy} = -\frac{ay}{g+a_z}$$
 (Eq. 2.28)



$$= \frac{O - (55 mph)(0.4470 \frac{m}{5})}{mph} = -4.92 \frac{m}{5^{2}}$$

$$\frac{dZ}{dy} = -\frac{\left(-4.92 \frac{m}{52}\right)}{9.81 \frac{m}{52} + 0} = \frac{0.502}{}$$