

1.39

$$F = a \dot{x} + b \dot{x}^2 = 5 \dot{x} + 0.2 \dot{x}^2$$

$$F(\dot{x}) \approx F(\dot{x}_0) + \left. \frac{dF}{d\dot{x}} \right|_{\dot{x}_0} (\dot{x} - \dot{x}_0)$$

At $\dot{x}_0 = 5$ m/s, $F(\dot{x}_0) = 5(5) + 0.2(25) = 30$ N, $\left. \frac{dF}{d\dot{x}} \right|_{\dot{x}_0} = (5 + 0.4 \dot{x}) \Big|_5 = 7$ and hence

$$F(\dot{x}) \approx 30 + 7(\dot{x} - 5) = 7\dot{x} - 5.$$

Thus the linearized damping constant is given by $F(\dot{x}) \approx 7\dot{x} = c_{eq} \dot{x}$ or $c_{eq} = 7$ N-s/m.

1.40

Damping constant due to skin friction drag is:

$$c = 100 \mu \ell^2 d \tag{1}$$

Damping constant of a plate-type damper is:

$$c_p = \frac{\mu A}{h} \tag{2}$$

where A = area of plates and h = distance between the plates. If the area of plates (A) in Fig. 1.35 is taken to be same as the area of the plate shown in Fig. 1.84, we have $A = \ell d$. Equating (1) and (2) gives

$$100 \mu \ell^2 d = \frac{\mu \ell d}{h} \tag{3}$$

from which the clearance between the plates can be determined as $h = \frac{1}{100 \ell}$.

1.41

$$c = \frac{8 \pi \mu \ell}{h^3} \left\{ \left(a - \frac{h}{2} \right)^2 - r^2 \right\} \left(\frac{a^2 - r^2}{a - \frac{h}{2}} - h \right)$$

When $\mu = 0.3445$ Pa-s, $\ell = 0.1$ m, $h = 0.001$ m, $a = 0.02$ m, and $r = 0.005$ m:

$$c = \frac{8 \pi (0.3445) (0.1)}{(10^{-3})^3} \left\{ (0.02 - 0.0005)^2 - 0.005^2 \right\} \left(\frac{0.02^2 - 0.005^2}{0.02 - 0.0005} - 0.001 \right) = 4,205.6394 \text{ N-s/m}$$

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