3. If $B \geq H$, use the curves for the calculated stability number N_s.

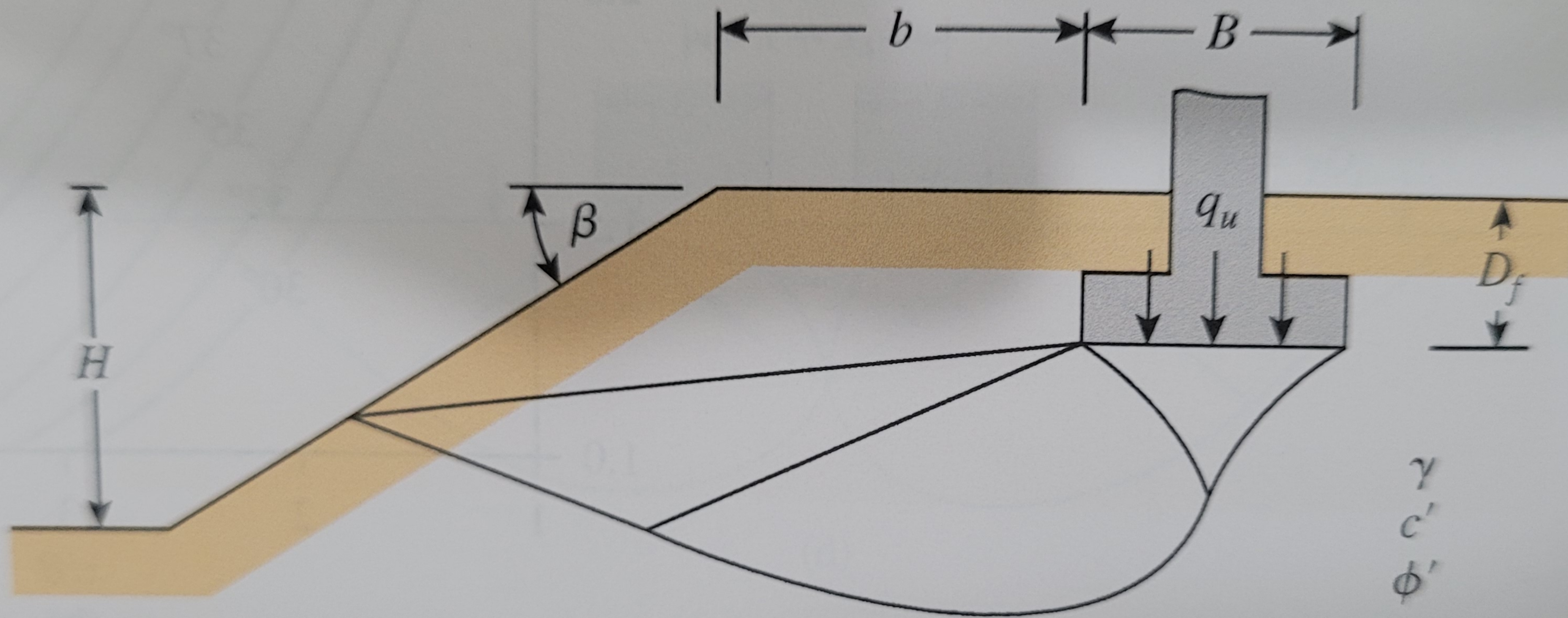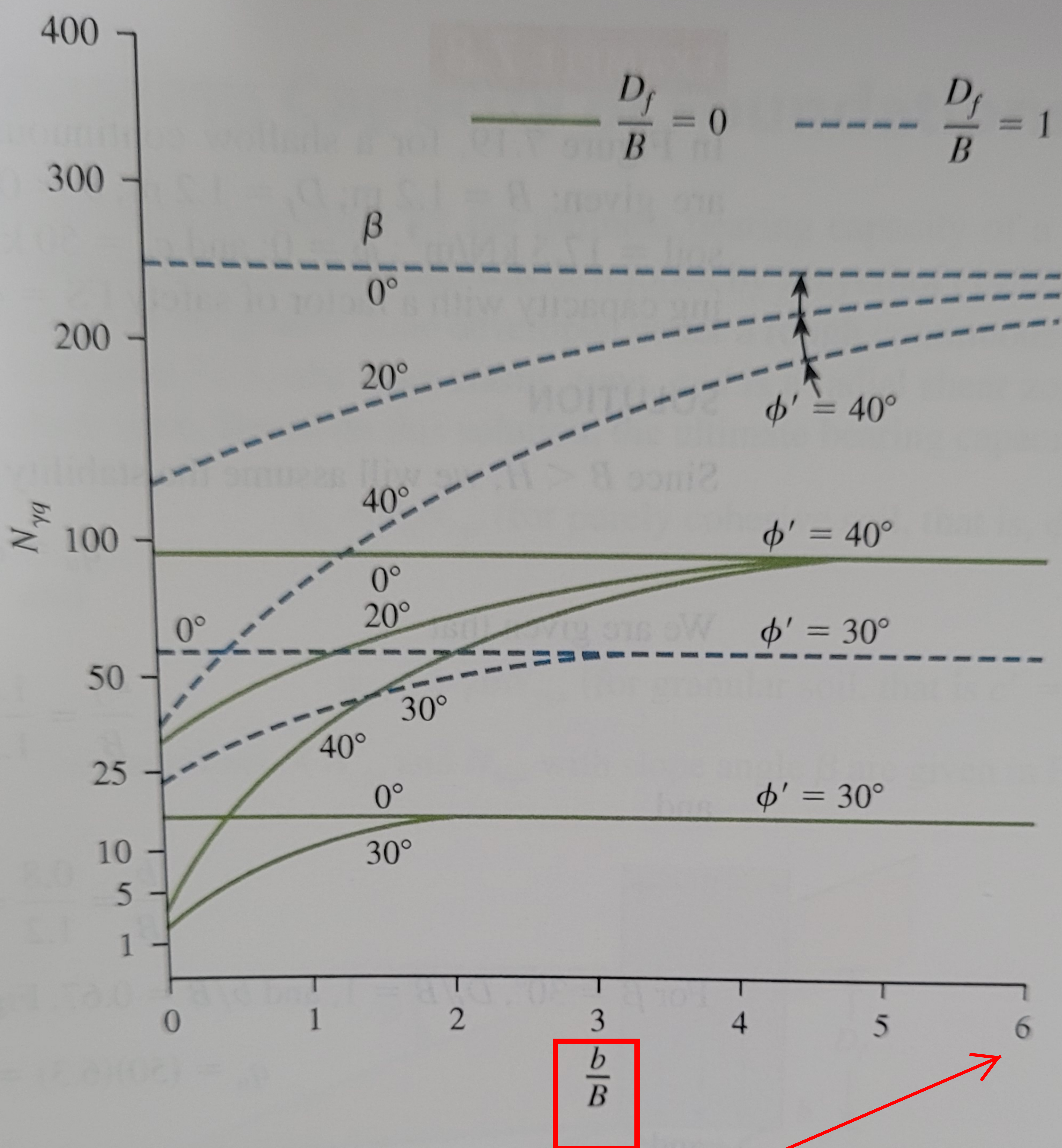
FIGURE 7.19 Shallow foundation on top of a slope

$$\frac{D_f}{B} = 0 \qquad \frac{D_f}{B} = 1$$

β

$0°$

$20°$

$\phi' = 40°$

$40°$

$\phi' = 40°$

$0°$

$20°$

$\phi' = 30°$

$30°$

$40°$

$0°$

$\phi' = 30°$

$30°$

$\frac{b}{B}$

IF b/B > 6, consider footing as "far from edge of slope"?

...bearing capacity factor $N_{\gamma q}$ for granular soil ($c' = 0$)

$$\frac{D_f}{B} = 1 \qquad \frac{D_f}{B} = 0$$

$\beta = 0°$

$15°$

$30°$

$45°$

$60°$

$90°$

$N_s = 0$

$0°$

$30°$

$60°$

$90°$

$N_s = 0$

N_{cq}

$N_c = 2$

$0°$