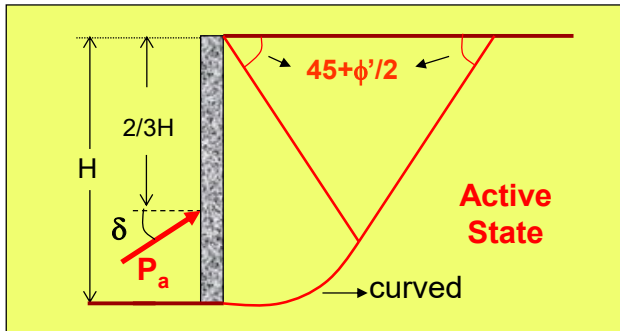


SOIL MECHANICS

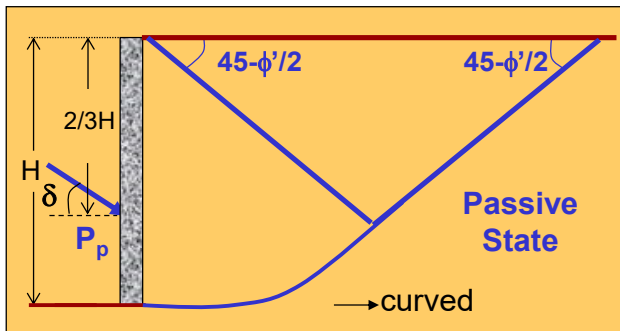
VOLUME 5

LATERAL EARTH PRESSURE



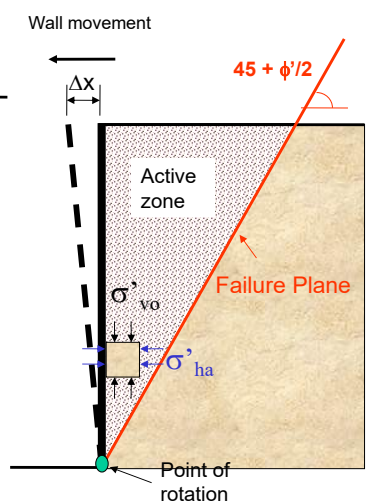
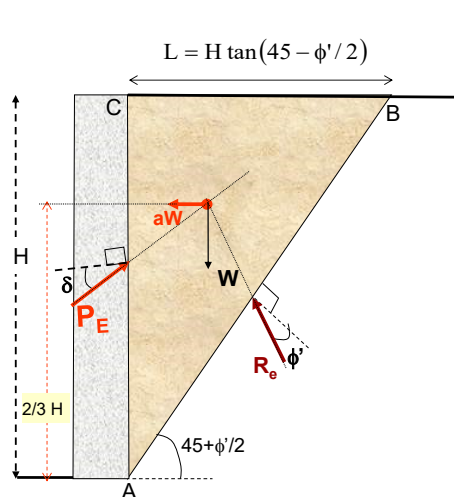
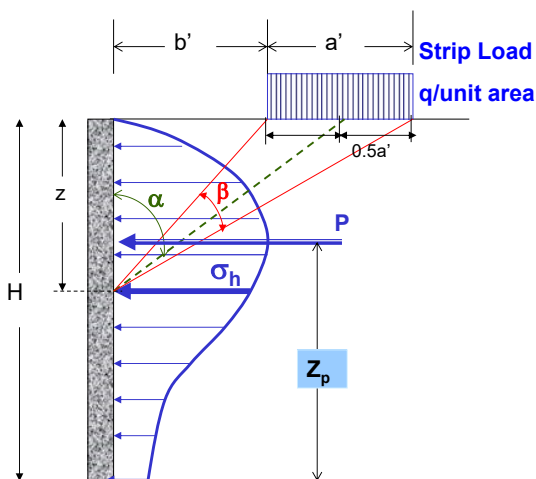
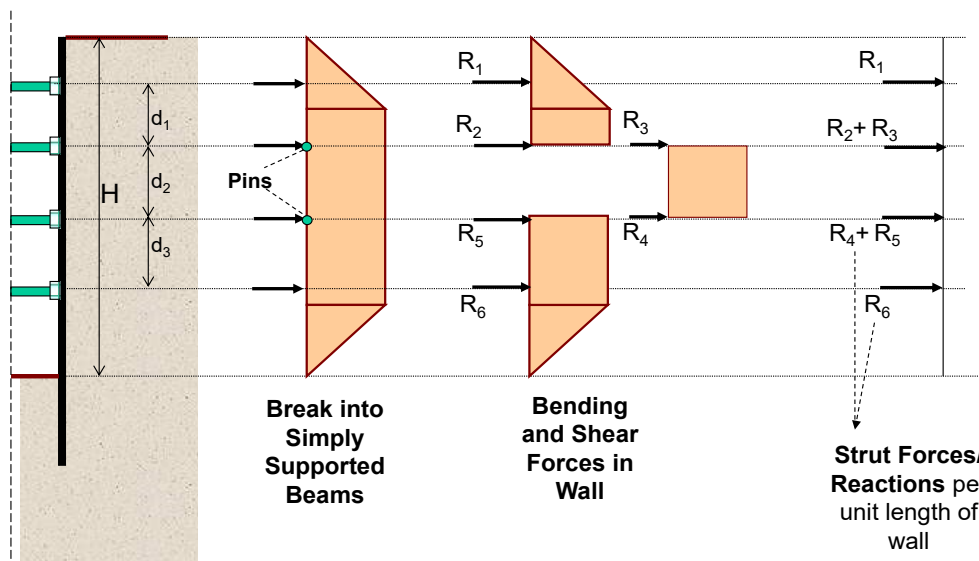
$$\sigma'_{ha} = \sigma'_v K_a - 2c' \sqrt{K_a}$$

$$K_a = \tan^2 \left(45 - \frac{\phi'}{2} \right) = \frac{1 - \sin \phi'}{1 + \sin \phi'}$$



$$\sigma'_{hp} = \sigma'_v K_p + 2c' \sqrt{K_p}$$

$$K_p = \tan^2 \left(45 + \frac{\phi'}{2} \right) = \frac{1 + \sin \phi'}{1 - \sin \phi'}$$



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