

HSLU Hochschule Luzern

Herbstsemester 2026

Baustatik 1

(hydrostatischer) Druck

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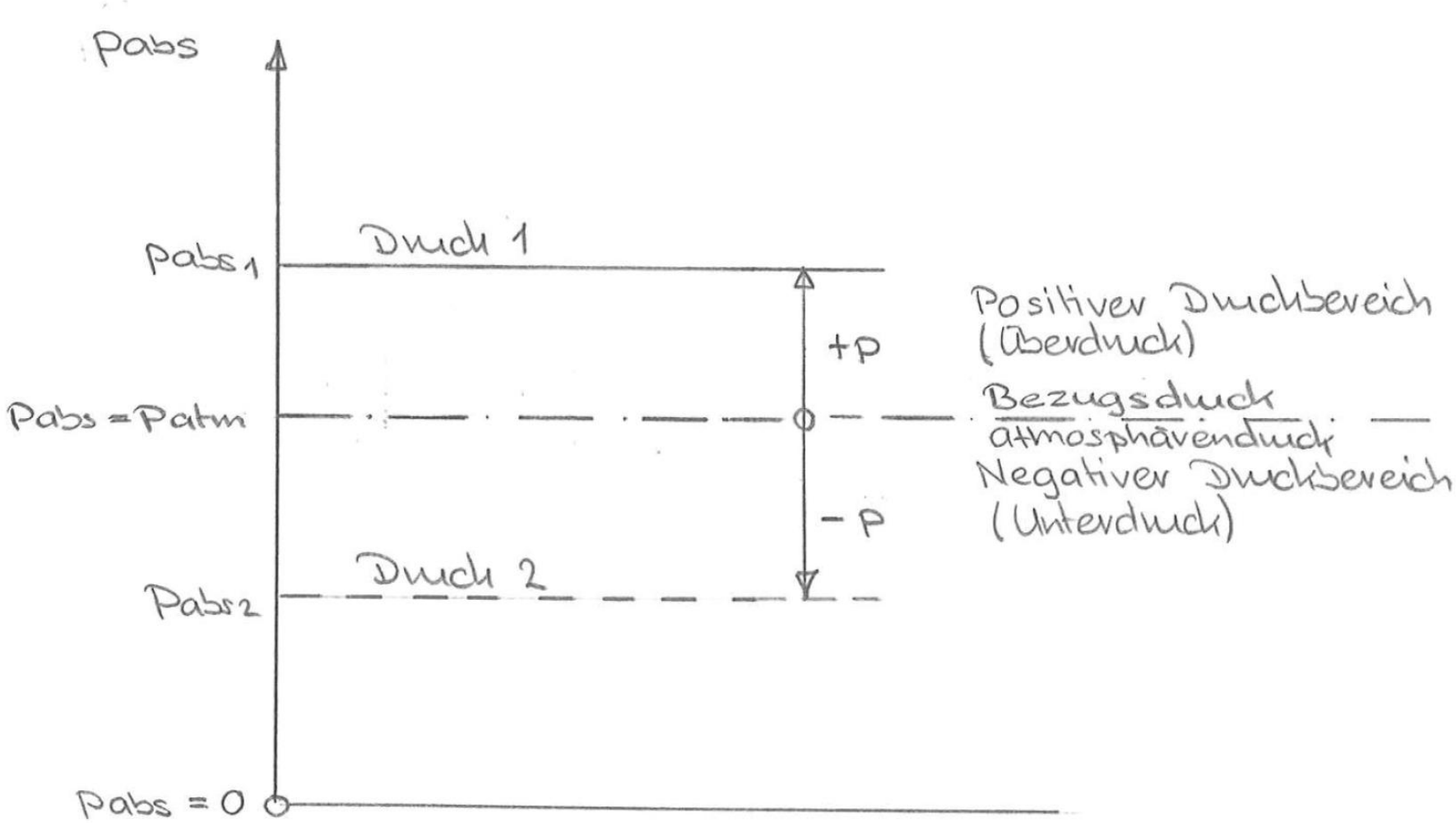
Definition und Einheiten

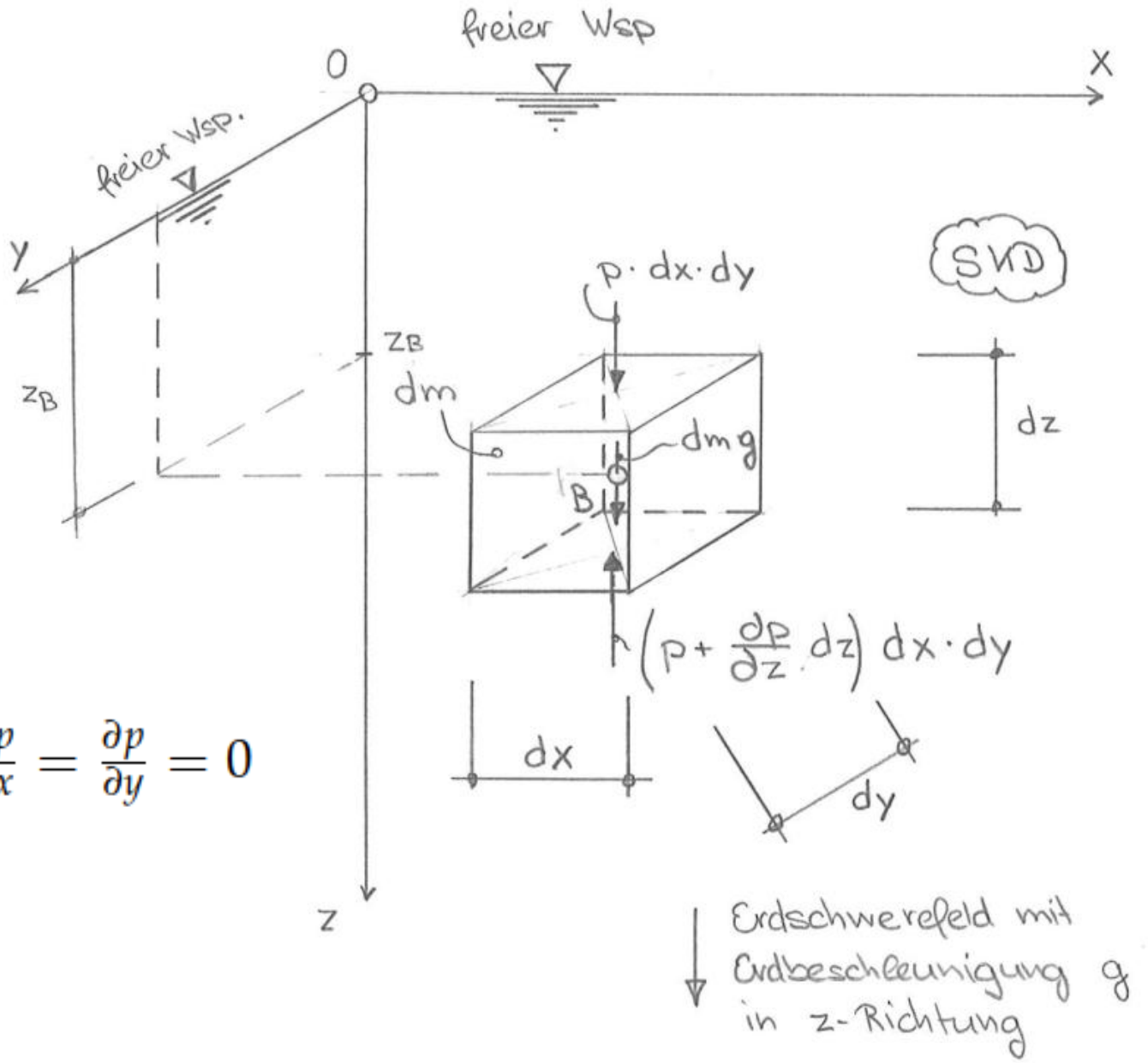
$$\sigma = \frac{\mathrm{d}N}{\mathrm{d}A}$$

$$p = \frac{F}{A}$$

$$\tau = \frac{\mathrm{d}V}{\mathrm{d}A}$$

Bezugsdruck



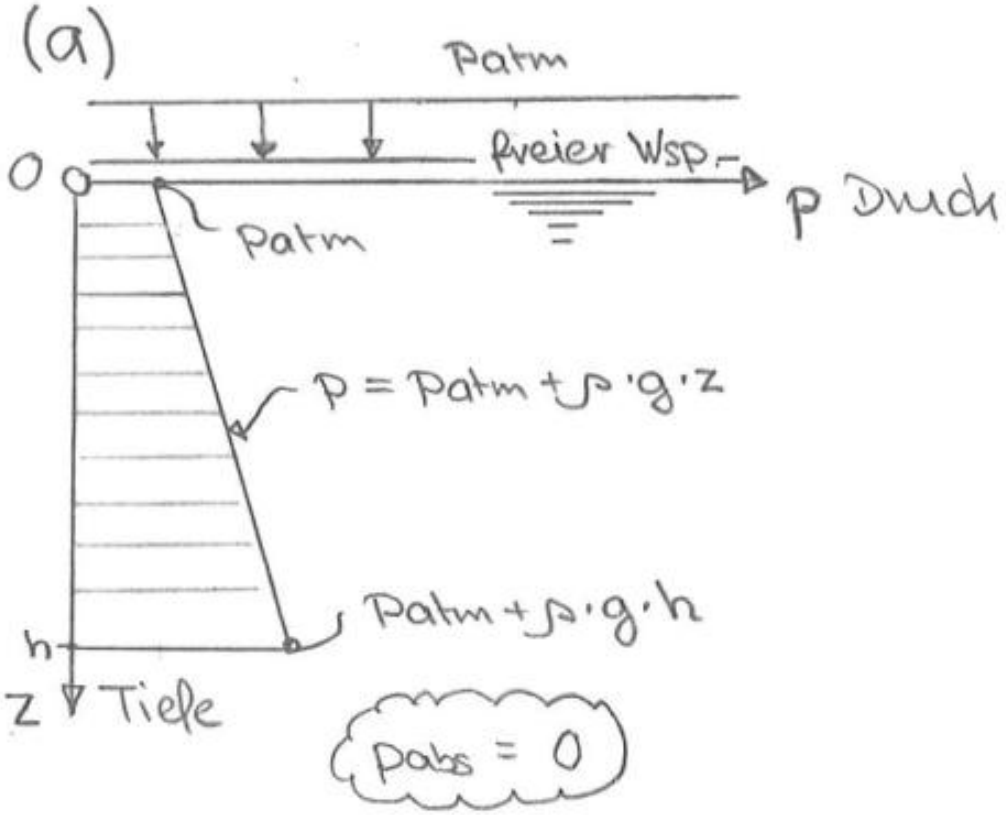


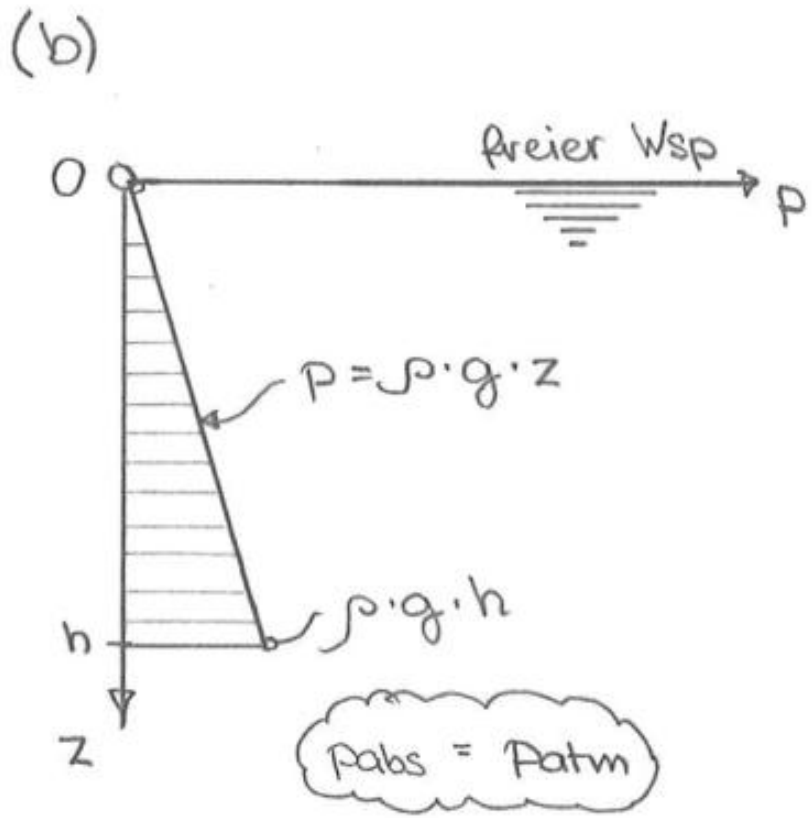
$$\frac{\partial p}{\partial x} = \frac{\partial p}{\partial y} = 0$$

$$\frac{\mathrm{d}p}{\mathrm{d}z} = \rho g = \gamma = konstant$$

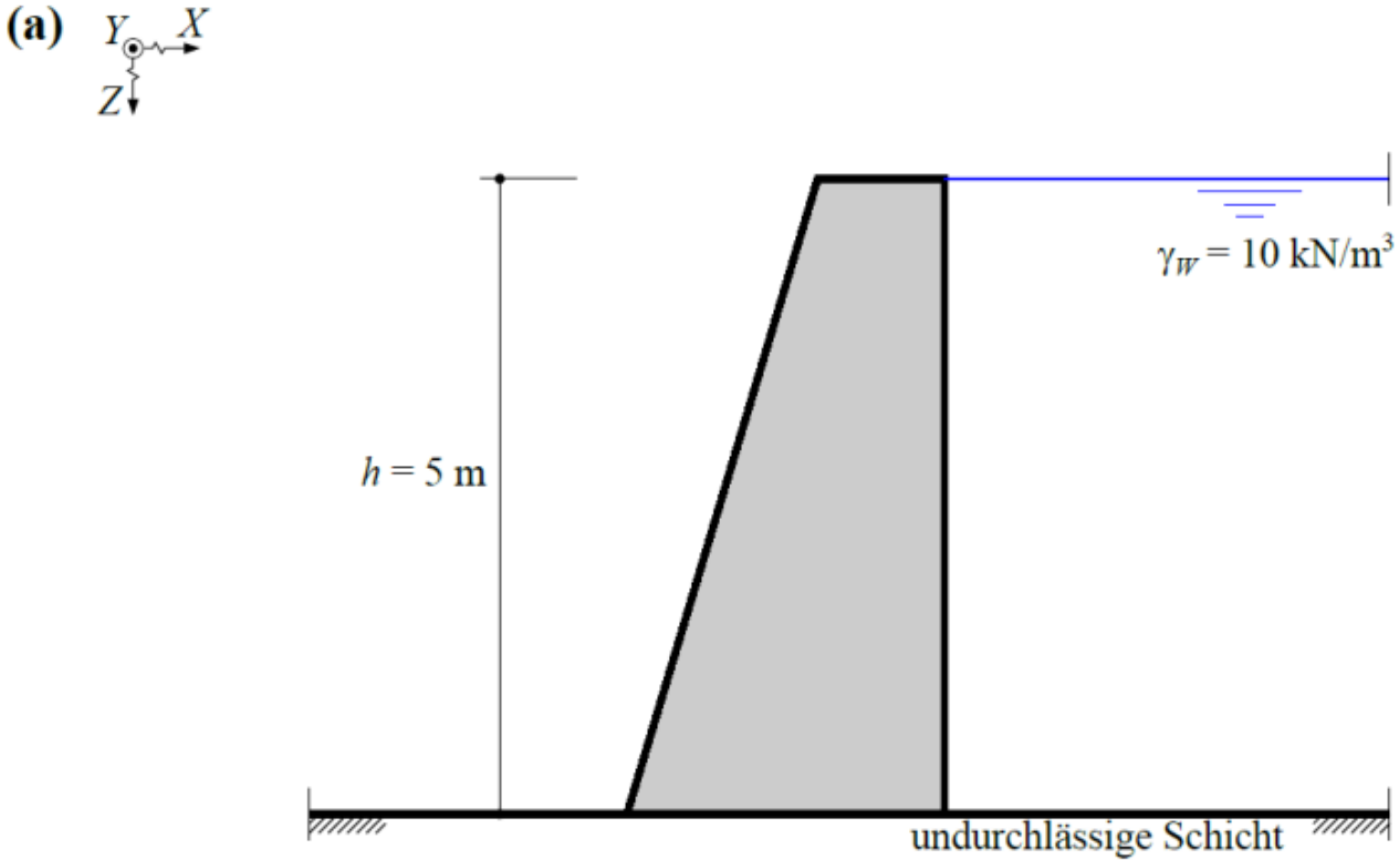
$$p(z) = \rho g z + C = \gamma z + C$$

Flüssigkeitsdruck





Beispiel 1



Beispiel 1

