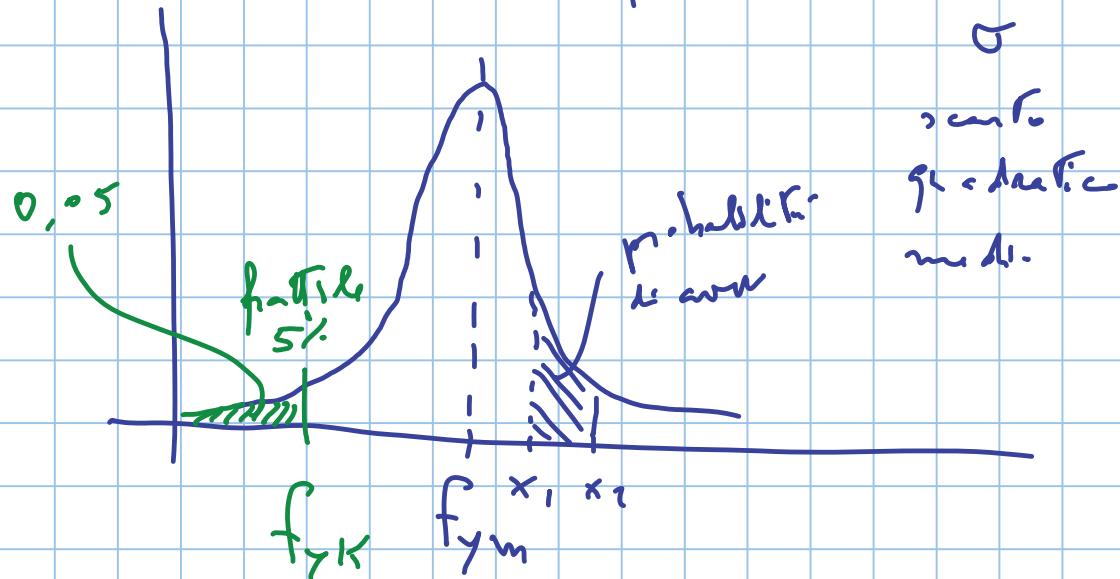


MATERIALI

Titolo nota

10/10/2018

densità di probabilità



valore
caratteristico
(frattile 5%)

$$f_{yk} = f_{ym} - 1.65 \sigma$$

f_y

tensione di
snervamento
(acciaio)
yielding

$$f_{ym} = \frac{\sum_{i=1}^n f_{yi}}{N}$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (f_{yi} - f_{ym})^2}{n-1}}$$

CARICHI

CARICHI

PERMANENTI

g

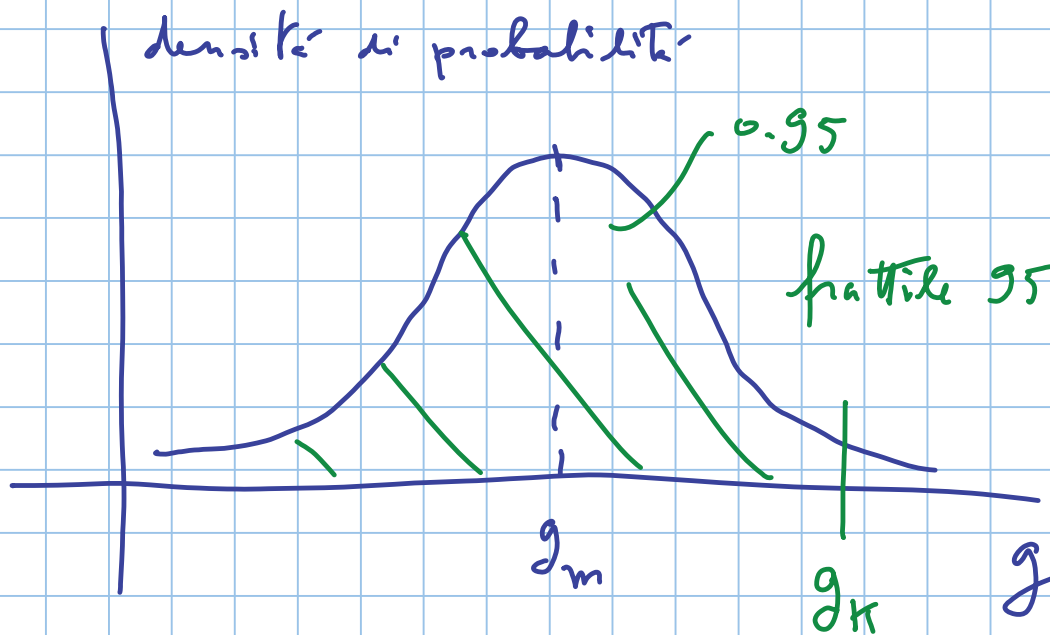
G

"

VARIABILI

g

Q



valore caratteristico
del carico

CARICHI VARIABILI

q_k fra 5% a 95% dei massimi nella vita della struttura
(oggi: probabilità di superamento, periodo di ritorno)

valore caratteristico o valore medio

— valore frequente

$\psi_1 q_k$

$\psi_1 < 1$

— valore quasi permanente
(valore medio nel tempo)

$\psi_2 q_k$

$\psi_2 < \psi_1$

XX escl

carichi : valori "nominali" (caratteristici)

tensioni
ammisibili

$$\bar{\sigma}_s \approx \frac{2}{3} f_{yk}$$

$$\bar{\sigma}_c \approx \frac{1}{3} f_{ck}$$

legame $\sigma - \epsilon$ lineare

ANALISI LINEARE

VERIFICA

S. d. c.

CALCOLO A ROTTURA

esempio: foundation

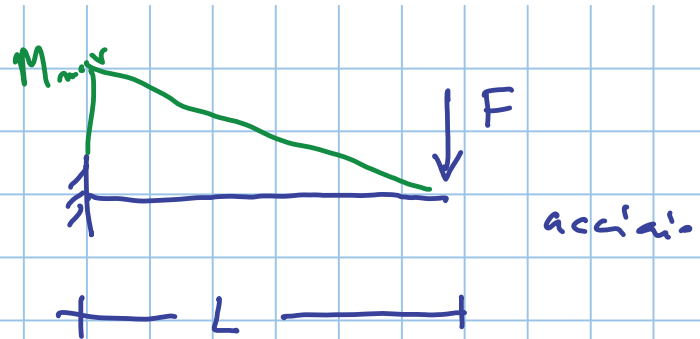
carico limite

Q_{lim}

determinato con valori
del terreno ϕ c_u "confine?"

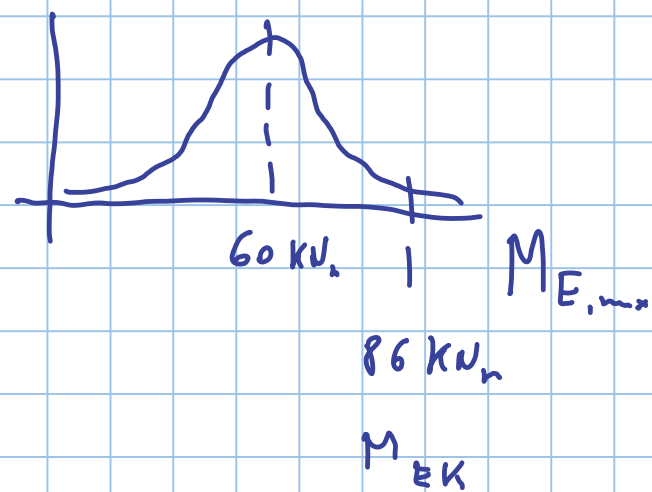
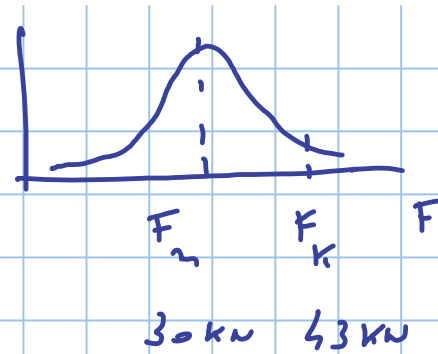
max. carico

$$\text{carico accet.} = \frac{Q_{lim}}{1.4 (?)}$$

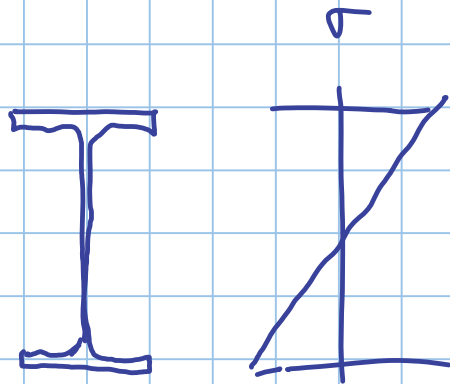


$$L = 2.00 \text{ m}$$

$$M_{E, \max} = F \cdot L$$



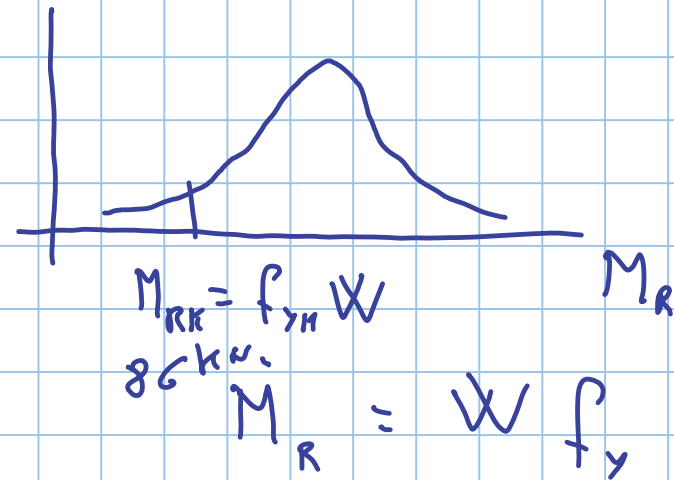
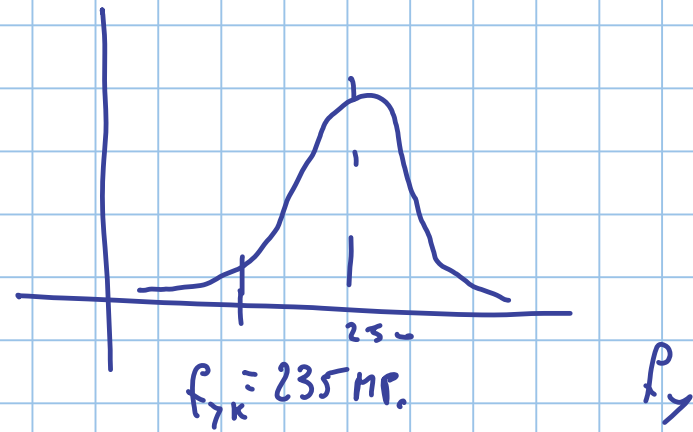
resistente f_y
acciaio.

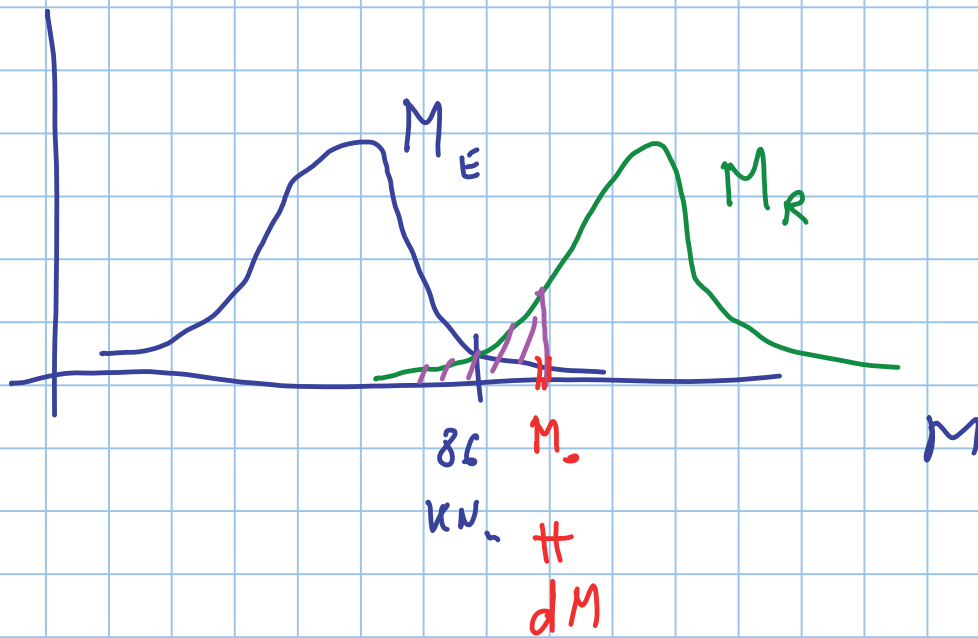


S.A.C.

$$\sigma = \frac{M}{I} y$$

$$\sigma_{max} = \frac{M}{W}$$





$$M_E(M_0) dM$$

$$\int_0^{\infty} \left[M_E(M_0) dM \cdot \int_0^{M_0} M_R(M) dM \right]$$

$$M_R(M_0)$$

$$\int_0^{M_0} M_R(M) dM$$