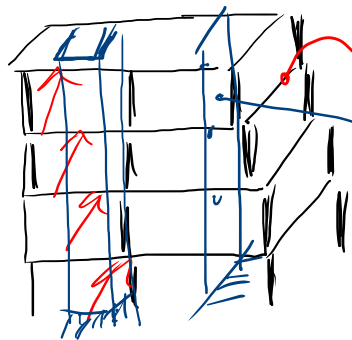


PROBLEMA DI RIPARTIZIONE DELLE AZIONI ORIZZ. TRA UN TELAI E UNA MENSOLOA IRRIGIDENTE (CONTROVENTO)

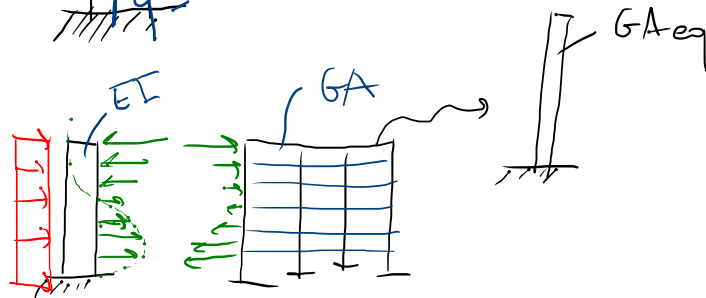
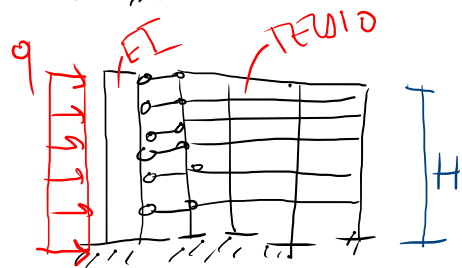
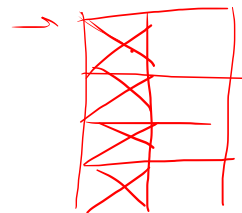
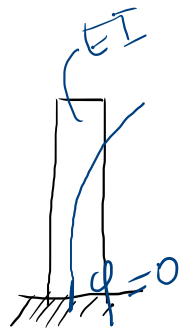
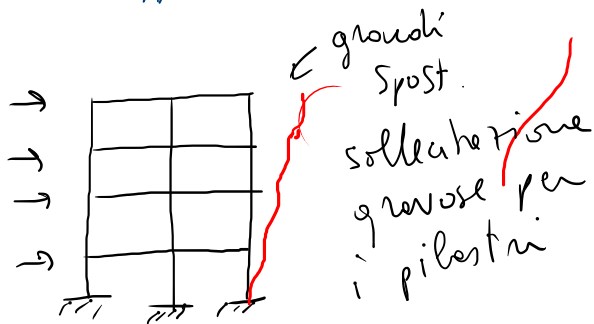
HIGH-RISE BUILDING



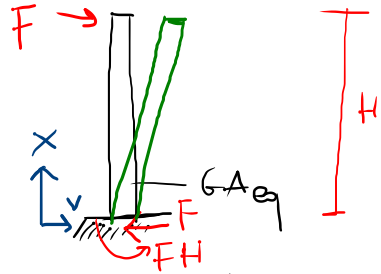
TELAIO (COMPORTAMENTO A TAGLIO)

PARETE IRRIGIDITE (COMP. FLESSIONE)

PROBLEMA: COME SI RIPARTISCONO LE AZIONI ORIZZONTALI TRA TELAI E PARETI IRRIGIDENTI?



MENSOLA DEFORMABILE A TAGLIO



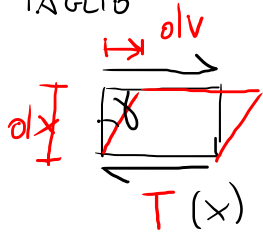
$$T = \cos t$$

$$= +F$$

$$\begin{cases} \frac{dv}{dx} = \frac{F}{GA_{eq}} \\ v(0) = 0 \end{cases} \quad C = 0$$

$$v(x) = \frac{F}{GA_{eq}} x + C$$

$$v(x) = \frac{F}{GA_{eq}} x \quad ; \quad v(H) = \frac{FH}{GA_{eq}}$$

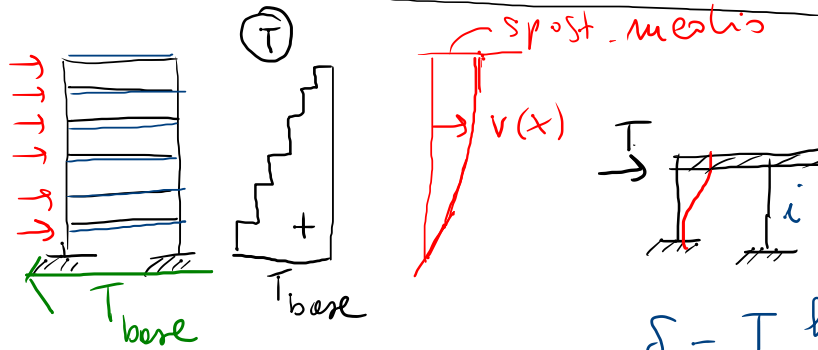


$$\gamma = \frac{dv}{dx} = \frac{T(x)}{GA_{eq}} = \frac{K T(x)}{GA}$$



A_{eq} : AREA RIDOTTO
o EQUIVALENTE
DEL TAGLIO

$$K = \frac{6}{5} \quad \square$$



Per il telaio shear-type

$$\alpha = \frac{\delta}{h} = \frac{T h^2}{12 \sum_i EI_i} \frac{1}{GA_{eq}} \quad ; \quad \alpha = \frac{T}{GA_{eq}}$$

$$GA_{eq} = \frac{12 \sum_i EI_i}{h^2}$$