# Cinematica delle trove

Misure d' deformasione

Modelles "semplificati".

Exprise 
$$\mathcal{E} = \frac{dw}{dz} \quad \text{arciale}$$

$$\frac{d}{dz} \quad \mathcal{E} = \frac{dw}{dz} \quad \text{arciale}$$

$$\gamma = \frac{dv}{dz} + \varphi \quad \text{ang.}$$

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$$\int_{\mathcal{A}} \mathcal{A} = \frac{d\varphi}{dz} \quad \text{cunvatura} \\ \text{fless: suak}$$

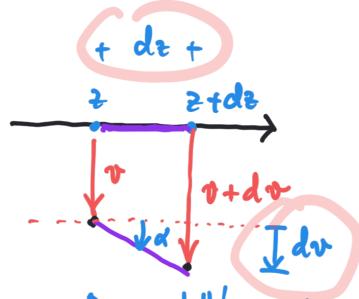
"spostament amale"
"abbanament" W(2) 1(2) "wassou"

## Misure d' deformasone

$$\begin{cases} z' + dz' = z + dz + w(z + dz) \\ z' = z + w(z) \end{cases}$$

$$\Rightarrow dz' = dz + w(z + dz) - w(z) = dz + \frac{dw}{dz} dz$$

$$\frac{dz' - dz}{dz} = \frac{dw}{dz} = z$$



a votaz. dell'arre in

$$\tan \alpha = \frac{dv}{dz} = v^{\dagger}$$

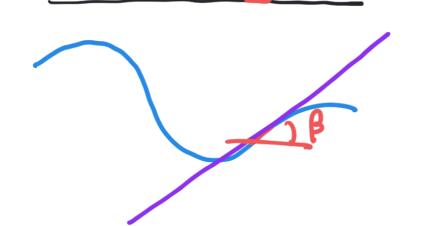
|v'| <<1 => tama 2 a

### Misure d' deformations

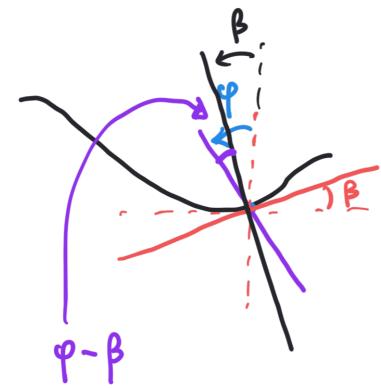
prive 
$$\mathcal{E} = \frac{dw}{dz}$$
 de la la  $z$ .

d'ancie  $x = \frac{dv}{dz} + \varphi$  aug.

$$x = \frac{dv}{dz} + \varphi$$
 curvatura flexionale



### Misure d' deformations

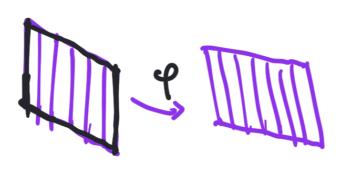


delle regione delle true.

prive 
$$\mathcal{E} = \frac{dw}{dz}$$
 at letas.   
dimense  $\mathcal{E} = \frac{dw}{dz}$  are all  $\mathcal{E}$  and  $\mathcal{E}$  and  $\mathcal{E}$  are all  $\mathcal{E}$  are all  $\mathcal{E}$  and  $\mathcal{E}$  are all  $\mathcal{E}$ 

= rentamente angolon delle rezone delle condizione di perpendicolonità risbelle all'ann defermate.

# t de t The Tav a volus, dell'arre in reac- oparis



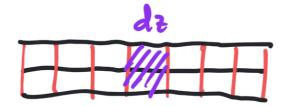
#### Misure d' deformasone

print 
$$\mathcal{E} = \frac{dw}{dz}$$
 dibetas.

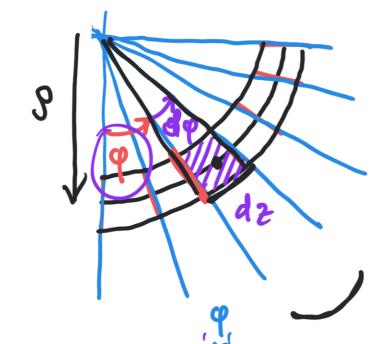
$$\gamma = \frac{dv}{dz} + \varphi \quad \text{ang.}$$

Particolar clane d'aly

### Convalue flescouale

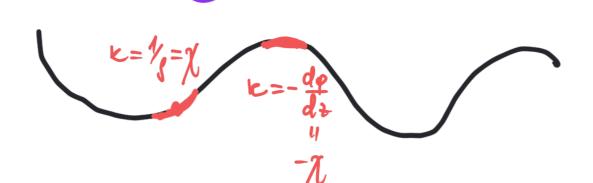


( r= 0)



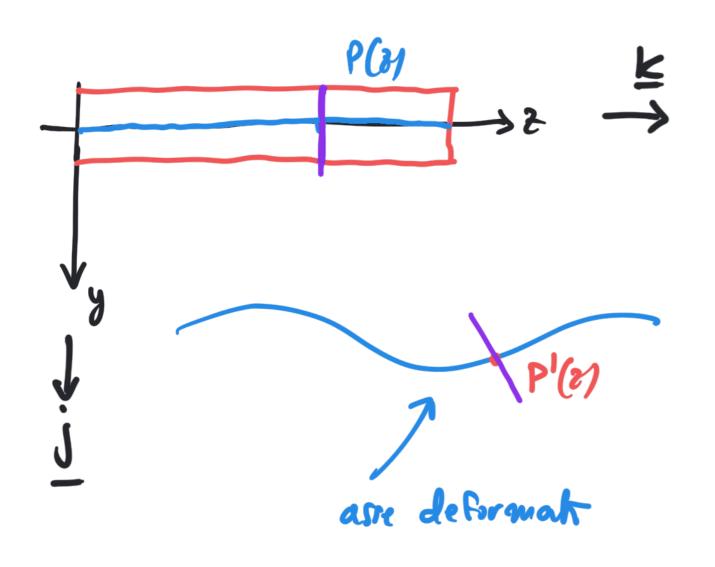
$$d\varphi = \frac{dz}{g}$$

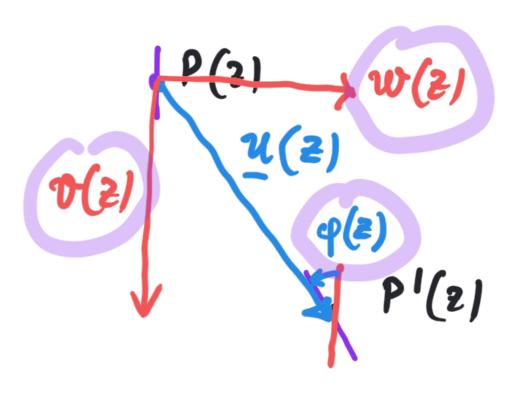
$$K = \frac{1}{g} = \frac{d\varphi}{dz} = \chi$$



## Cinematica delle trave

Modello "semplificati".





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