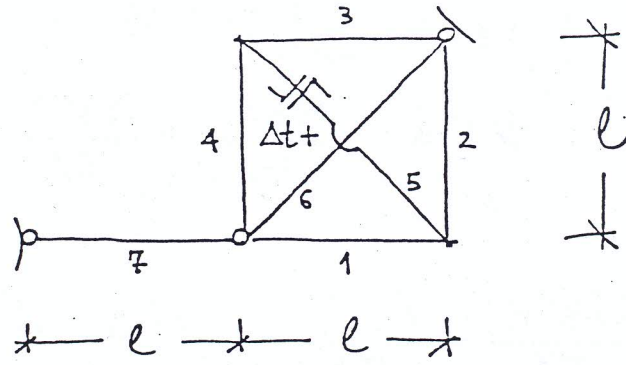
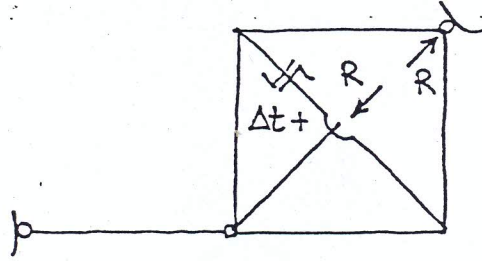


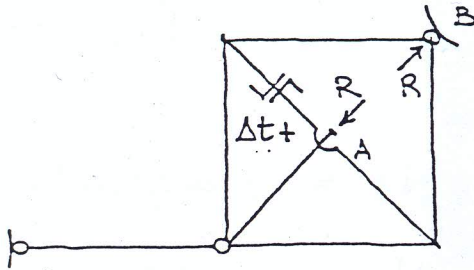
$EA = \text{const.}$



1)



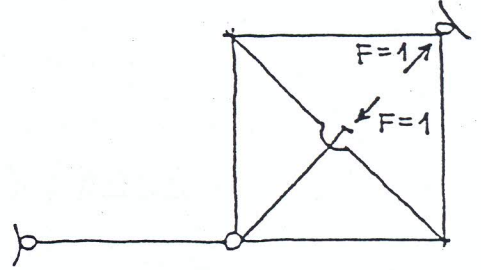
2)



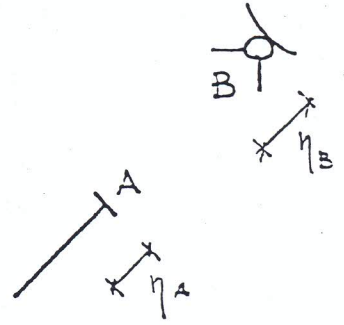
S.D.

$\Delta \eta_{AB} = \eta_A - \eta_B$

F.S.



	1	2	3	4	5	6	7
l_i	l	l	l	l	$l\sqrt{2}$	$l\sqrt{2}$	l
N_i^t	$\sqrt{2}/2$	$\sqrt{2}/2$	$\sqrt{2}/2$	$\sqrt{2}/2$	-1	-1	0
N_i^r	$\frac{\sqrt{2}}{2} R$	$\frac{\sqrt{2}}{2} R$	$\frac{\sqrt{2}}{2} R$	$\frac{\sqrt{2}}{2} R$	$-R$	$-R$	0
Δe_i^r					$\alpha l \sqrt{2} \Delta t$		



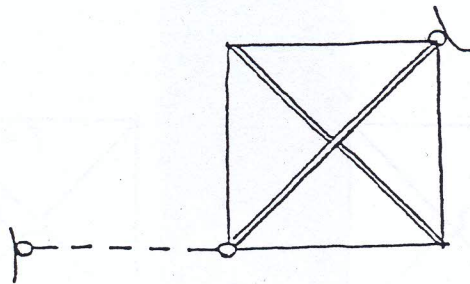
$$1. \eta_A - 1. \eta_B = \frac{1}{EA} \left(\frac{Rl}{2} + \frac{Rl}{2} + \frac{Rl}{2} + \frac{Rl}{2} + \sqrt{2}Rl + \sqrt{2}Rl \right) - \alpha l \sqrt{2} \Delta t$$

$$\Rightarrow \Delta \eta_{AB} = \frac{(2+2\sqrt{2})Rl}{EA} - \alpha l \sqrt{2} \Delta t$$

$$3) \Delta \eta_{AB} = \frac{(2+2\sqrt{2})Rl}{EA} - \alpha l \sqrt{2} \Delta t = 0$$

$$\Rightarrow R = \frac{\alpha \sqrt{2} \Delta t EA}{2+2\sqrt{2}}$$

4)



N_i : - - - - - 0
 = = = = = +
 = = = = = -

$$N_1 = \frac{\alpha \Delta t EA}{2+2\sqrt{2}}$$

$$N_2 = \frac{\alpha \Delta t EA}{2+2\sqrt{2}}$$

$$N_3 = \frac{\alpha \Delta t EA}{2+2\sqrt{2}}$$

$$N_4 = \frac{\alpha \Delta t EA}{2+2\sqrt{2}}$$

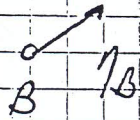
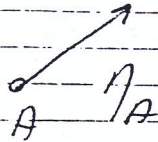
$$N_5 = - \frac{\alpha \Delta t EA \sqrt{2}}{2+2\sqrt{2}}$$

$$N_6 = - \frac{\alpha \Delta t EA \sqrt{2}}{2+2\sqrt{2}}$$

$$N_7 = 0$$

Operazioni

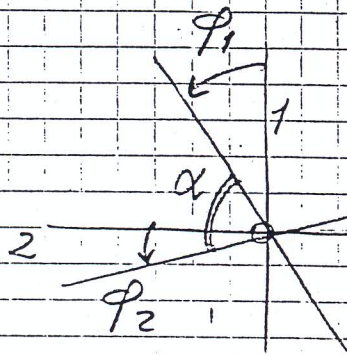
M



$$\Delta \eta_{AB} = \eta_A - \eta_B$$

Per $\Delta \eta_{AB} > 0$ si ha allontanamento dei nodi.

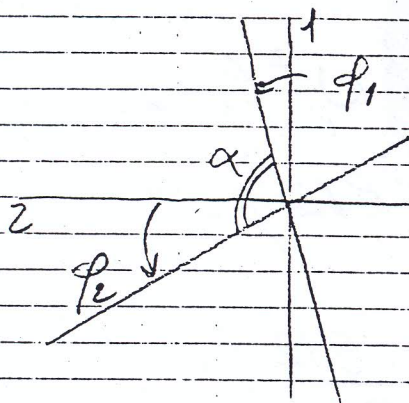
Per $\Delta \eta_{AB} < 0$ si ha avvicinamento dei nodi.



$$\Delta \varphi_{12} = \varphi_1 - \varphi_2$$

Se $\varphi_1 > \varphi_2 \rightarrow \Delta \varphi_{12} > 0$

Le sezioni restano in modo da formare un angolo acuto α



Se $\varphi_1 < \varphi_2 \rightarrow \Delta \varphi_{12} < 0$

Le sezioni restano in modo da formare un angolo ottuso α