

$$\varphi_c = -\frac{l}{2EI} \left(\frac{5}{8} q l^2 + \frac{2EI}{l} \varphi_B \right) = -\frac{5}{56} \frac{q l^3}{EI} - \frac{2}{7} \varphi_B \quad (5)$$

$$-\frac{7}{6} q l^2 - 11 \frac{EI}{l} \varphi_B + \frac{5}{28} q l^2 + \frac{4}{7} \frac{EI}{l} \varphi_B =$$

$$= -\frac{83}{84} q l^2 - \frac{73}{7} \frac{EI}{l} \varphi_B = 0$$

$$\varphi_B = -\frac{83}{84} \frac{7}{73} \frac{q l^3}{EI} = -\frac{581}{6132} \frac{q l^3}{EI} = -0.0947 \frac{q l^3}{EI}$$

$$\varphi_c = -\frac{5}{56} \frac{q l^3}{EI} + \frac{2}{7} \cdot \frac{581}{6132} \frac{q l^3}{EI} = -0.0622 \frac{q l^3}{EI}$$

3.1)

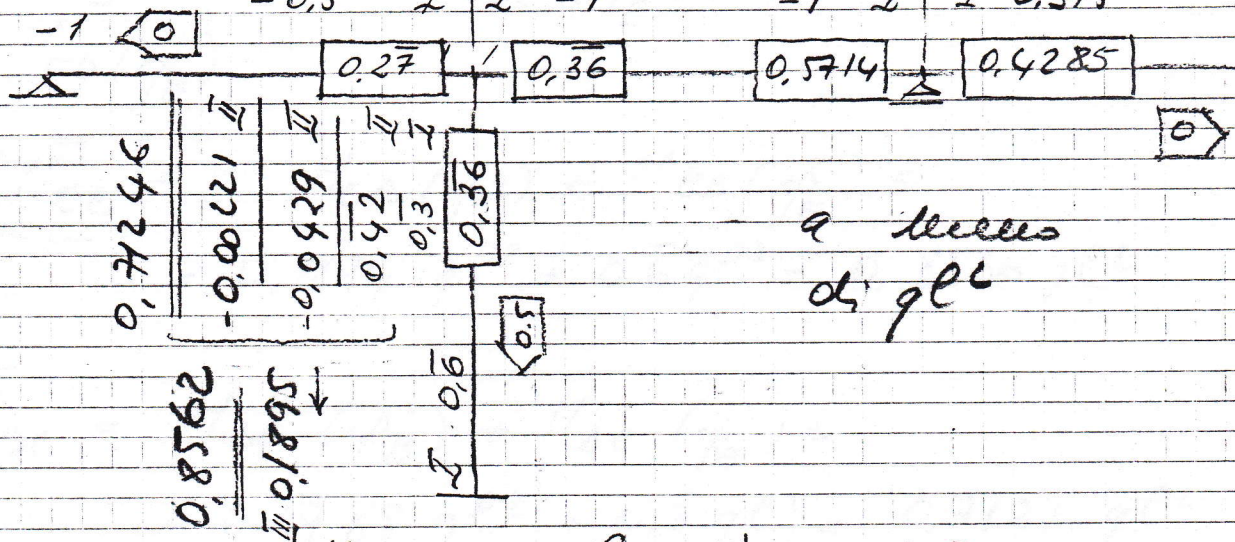
$$\begin{array}{r|l} -0,21583 & -0,50201 \\ \hline & 0,00063 \text{ II} \end{array} \quad \begin{array}{r|l} -0,5617 & 0,56157 \\ \hline & 0,00047 \end{array}$$

$$\begin{array}{r|l} -0,00166 \text{ II} & \text{II} -0,00221 \rightarrow -0,0011 \text{ III} \\ \hline & \text{III} 0,0061 \leftarrow 0,0122 \text{ II} \end{array} \quad \begin{array}{r|l} & \text{II} 0,0092 \end{array}$$

$$\begin{array}{r|l} -0,03217 \text{ II} & \text{II} -0,0929 \rightarrow -0,02145 \text{ III} \\ \hline & \text{III} 0,1179 \leftarrow 0,2359 \text{ II} \end{array} \quad \begin{array}{r|l} & \text{II} 0,1769 \end{array}$$

$$\begin{array}{r|l} 0,318 \text{ II} & \text{II} 0,42 \rightarrow 0,21 \text{ III} \\ \hline & \text{III} \end{array}$$

$$\begin{array}{r|l} -0,5 \text{ I} & \text{I} -1 \\ \hline & -1 \text{ I} \end{array} \quad \begin{array}{r|l} & \text{I} 0,375 \end{array}$$



a menos
de $q l^2$

coordenada i	coordenada j	k_{ij}	f_{ij}	c_{ij}
B	BA	$3EI/l$	$0,27$	0
	BC	$4EI/l$	$0,36$	0,5
	BE	$4EI/l$	$0,36$	0,5
C	CB	$4EI/l$	$0,5714$	0,5
	CD	$3EI/l$	$0,4285$	0