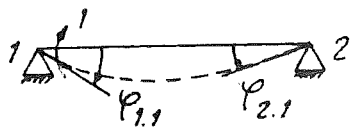
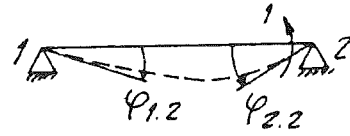
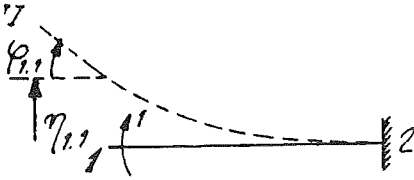
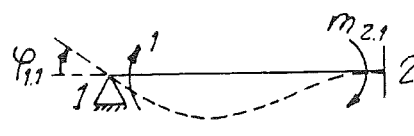
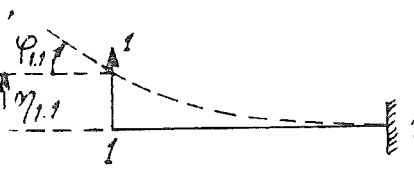


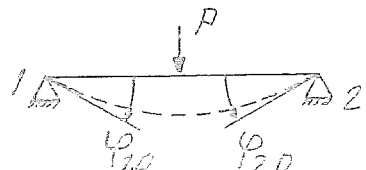
TABELLA I

coefficienti di influenza per il metodo delle forze
 • rotazioni e gli spostamenti sono riferiti agli estremi delle aste-

Coefficienti dovuti a forze e momenti unitari

	$\varphi_{1.1} = \frac{l}{3EJ}$ $\varphi_{2.1} = \frac{l}{6EJ}$
	$\varphi_{1.2} = \frac{l}{6EJ}$ $\varphi_{2.2} = \frac{l}{3EJ}$
	$\varphi_{1.1} = \frac{l}{EJ}$ $\eta_{1.1} = \frac{l^2}{2EJ}$
	$\varphi_{1.1} = \frac{l}{4EJ}$ $m_{2.1} = \frac{1}{2}$
	$\varphi_{1.1} = \frac{l^2}{2EJ}$ $\eta_{1.1} = \frac{l^3}{3EJ}$

Coefficienti dovuti a situazioni di carico esterne

<p>II</p> 	$\varphi_{1.0} = \varphi_{2.0} = \frac{P \cdot l^2}{16EJ}$
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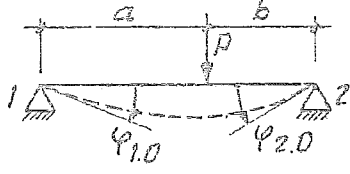
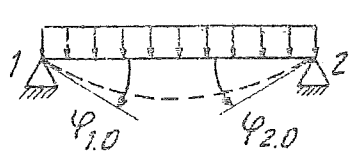
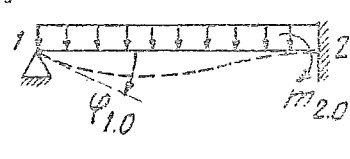
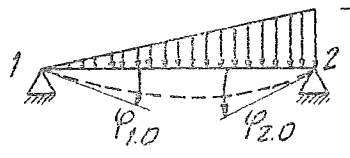
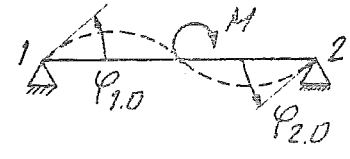
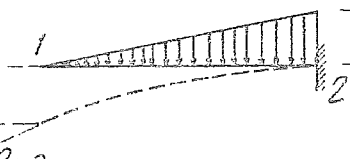
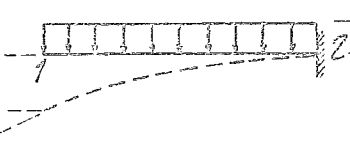
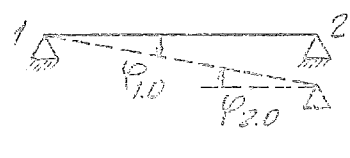
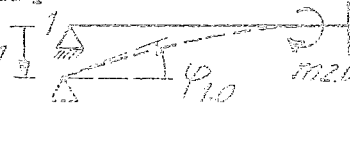
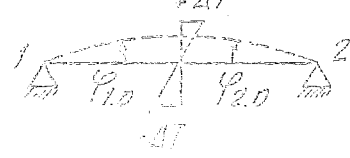
<p>VII</p> 	$\varphi_{1.0} = \frac{Pb(l^2 - b^2)}{6EI}$ $\varphi_{2.0} = \frac{Pab(2l - b)}{6EI}$
<p>VIII</p> 	<p>IX</p>  $\varphi_{1.0} = \varphi_{2.0} = \frac{p \cdot l^3}{24EI}$ $\varphi_{1.0} = \frac{p \cdot l^3}{48EI}$ $m_{2.0} = \frac{p \cdot l^2}{8}$
<p>X</p> 	$\varphi_{1.0} = \frac{7 p l^3}{360EI}$ $\varphi_{2.0} = \frac{p l^3}{45EI}$
<p>XI</p> 	$\varphi_{1.0} = \varphi_{2.0} = \frac{Ml}{24EI}$
<p>XII</p> 	$\varphi_{1.0} = \frac{p l^3}{24EI}$ $\eta_{1.0} = \frac{p \cdot l^4}{30EI}$
<p>XIII</p> 	$\varphi_{1.0} = \frac{p l^3}{6EI}$ $\eta_{1.0} = \frac{p \cdot l^4}{8EI}$
<p>XIV</p> 	<p>XV</p>  $\varphi_{1.0} = \varphi_{2.0} = \frac{p}{l}$ $\varphi_{1.0} = \frac{3}{2} \frac{\eta}{l}$ $m_{2.0} = \frac{3EI}{l^2} \eta$
<p>XVI</p> 	$\varphi_{1.0} = \varphi_{2.0} = \frac{\alpha \cdot \Delta T}{t}$ <p>(α = coeff. di dilatazione termica) (t = altezza della trave)</p>

TABELLA II

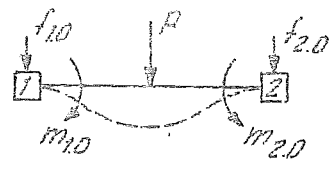
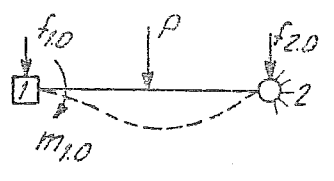
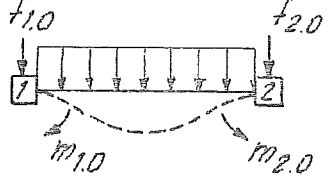
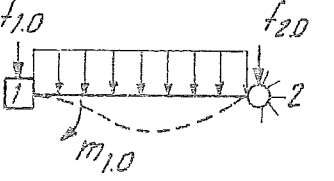
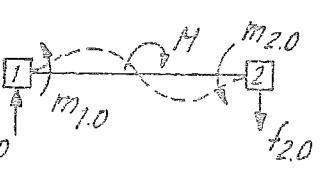
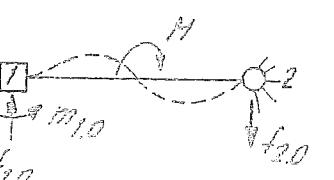
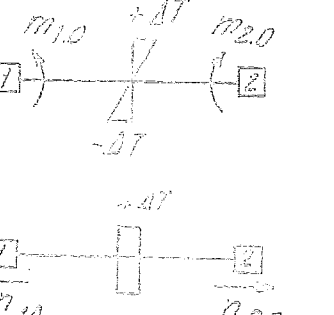
Coefficients di influenza per il metodo degli spostamenti

Le forze e i momenti sono riferiti ai nodi.

Coefficients dovuti a spostamenti e rotazioni unitarie

	$m_{1,1} = \frac{4EJ}{l} \quad m_{2,1} = \frac{2EJ}{l} \quad f_{1,1} = f_{2,1} = \frac{6EJ}{l^2}$
	$m_{1,1} = \frac{3EJ}{l} \quad m_{2,1} = 0 \quad f_{1,1} = f_{2,1} = \frac{3EJ}{l^2}$
	$m_{1,1} = m_{2,1} = \frac{6EJ}{l^2} \quad f_{1,1} = f_{2,1} = \frac{12EJ}{l^3}$
	$m_{1,1} = \frac{3EJ}{l^2} \quad m_{2,1} = 0 \quad f_{1,1} = f_{2,1} = \frac{3EJ}{l^3}$
	$m_{1,1} = m_{2,1} = \frac{EJ}{l} \quad f_{1,1} = f_{2,1} = 0$
	$m_{1,1} = \frac{12\mu(EJ)^2 + 4lEJ}{l(l + 4\mu EJ)} = \frac{4EJ}{l} \frac{3l + 4\mu EJ}{l + 4\mu EJ}$ $m_{2,1} = \frac{6\mu(EJ)^2 + 2EJl}{l(l + 4\mu EJ)(l + 3\mu EJ)} = \frac{2EJ}{l} \frac{l}{l + 4\mu EJ}$ $f_{1,1} = f_{2,1} = 3 \frac{6\mu(EJ)^2 + 2lEJ}{l^2(l + 4\mu EJ)} \frac{l + 2\mu EJ}{l + 3\mu EJ} = \frac{6EJ}{l^2} \frac{l + 2\mu EJ}{l + 4\mu EJ}$
	$m_{1,1} = \frac{6lEJ + 12\mu(EJ)^2}{l^2(l + 4\mu EJ)} = \frac{6EJ}{l^2} \frac{l + 2\mu EJ}{l + 4\mu EJ}$ $m_{2,1} = \frac{6EJ}{l^2(l + 4\mu EJ)} = \frac{6EJ}{l^2} \frac{l}{l + 4\mu EJ}$ $f_{1,1} = f_{2,1} = \frac{12EJ}{l^3} \frac{l + \mu EJ}{l + 4\mu EJ} = \frac{12EJ}{l^3} \frac{l + \mu EJ}{l + 4\mu EJ}$

Coefficienti dovuti a situazioni di carico esterno

<p>VIII</p> 	$m_{1.0} = m_{2.0} = \frac{P \cdot l}{8}$ $f_{1.0} = f_{2.0} = \frac{P}{2}$
<p>IX</p> 	$m_{1.0} = \frac{3}{16} P \cdot l$ $f_{1.0} = \frac{11}{16} P \quad f_{2.0} = \frac{5}{16} P$
<p>X</p> 	$m_{1.0} = m_{2.0} = \frac{p \cdot l^2}{12}$ $f_{1.0} = f_{2.0} = \frac{p \cdot l}{2}$
<p>XI</p> 	$m_{1.0} = \frac{p \cdot l^2}{8} \quad m_{2.0} = 0$ $f_{1.0} = \frac{5}{8} p \cdot l \quad f_{2.0} = \frac{3}{8} p \cdot l$
<p>XII</p> 	$m_{1.0} = m_{2.0} = \frac{M}{4}$ $f_{1.0} = f_{2.0} = \frac{3}{2} \frac{M}{l}$
<p>XIII</p> 	$m_{1.0} = \frac{M}{8}$ $f_{1.0} = f_{2.0} = \frac{9}{8} \frac{M}{l}$
<p>XIV</p> 	$m_{1.0} = m_{2.0} = \frac{2 E I \alpha \Delta T}{l}$ $n_{1.0} = n_{2.0} = \alpha \Delta T E A$ <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-top: 10px;"> <p><i>l</i> = altezza della trave <i>A</i> = sezione della trave</p> </div>