

	Kirchhoff $\mathbf{u} = \{w, j_x, j_y\}^T$ (non indipendenti)	Mindlin-Reissner $\mathbf{u} = \{w, j_x, j_y\}^T$ (indipendenti)	
cinematica	curvature flessionali e torsionale $\mathbf{?} = \{k_x, k_y, k_{xy}\}^T = \{-w_{,xx}, -w_{,yy}, -2w_{,yx}\}^T$ scorrimenti angolari $\mathbf{?} = \{g_x, g_y\}^T = \mathbf{0}$	curvature flessionali e torsionale $\mathbf{?} = \{k_x, k_y, k_{xy}\}^T = \{j_{x,x}, j_{y,y}, (j_{x,y} + j_{y,x})\}^T$ scorrimenti angolari $\mathbf{?} = \{g_x, g_y\}^T = \{(j_x + w_{,x}), (j_y + w_{,y})\}^T$	
statica	momenti flettenti e torcente $\mathbf{M} = \{M_x, M_y, M_{xy}\}^T$ sforzi di taglio $\mathbf{T} = \{T_x, T_y\}^T$	momenti flettenti e torcente $\mathbf{M} = \{M_x, M_y, M_{xy}\}^T$ tagli $\mathbf{T} = \{T_x, T_y\}^T$	
legame isotropo	rigidezza flessionale: $D = \frac{Eh^3}{12(1-n^2)}$ $\mathbf{D} = \frac{Eh^3}{12(1-n^2)} \begin{bmatrix} 1 & \nu & 0 \\ \nu & 1 & 0 \\ 0 & 0 & \frac{1}{2}(1-\nu) \end{bmatrix}$ $\mathbf{M} = \mathbf{D?}$ rigidezza a taglio: $K \rightarrow \infty$	rigidezza flessionale: $D = \frac{Eh^3}{12(1-n^2)}$ $\mathbf{D} = \frac{Eh^3}{12(1-n^2)} \begin{bmatrix} 1 & \nu & 0 \\ \nu & 1 & 0 \\ 0 & 0 & \frac{1}{2}(1-\nu) \end{bmatrix}$ $\mathbf{M} = \mathbf{D?}$	rigidezza a taglio: $K = \frac{5}{6} Gh = \frac{5Eh}{12(1+n)}$ $\mathbf{K} = \frac{5}{6} Gh \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ $\mathbf{T} = \mathbf{K?}$
equazioni di campo	$D\Delta\Delta w = p_z$ + 2 condizioni in ogni punto del contorno	$K(j_{x,x} + j_{y,y} + w_{,xx} + w_{,yy}) + p_z = 0$ $D\left(j_{x,xx} + \frac{1+n}{2}j_{y,xy} + \frac{1-n}{2}j_{x,yy}\right) = K(j_x + w_{,x})$ $D\left(j_{y,yy} + \frac{1+n}{2}j_{x,xy} + \frac{1-n}{2}j_{y,xx}\right) = K(j_y + w_{,y})$ +3 condizioni in ogni punto del contorno	
PSV	$\iint_A (d?^T \mathbf{M}) dA = \iint_A (d\mathbf{u}^T \mathbf{p}) dA$	$\iint_A (d?^T \mathbf{M} + d?^T \mathbf{T}) dA = \iint_A (d\mathbf{u}^T \mathbf{p}) dA$	

	Membranale $\mathbf{u} = \{u, v\}^T$	Von Karman $\mathbf{u} = \{u, v, w, j_x, j_y\}^T$ (GNL)
cinematica	Deformazioni estensionali e twist $\mathbf{e} = \{e_x, e_y, g_{xy}\}^T = \{u_{,x}, v_{,y}, (u_{,y} + v_{,x})\}^T$	Deformazioni estensionali e twist $\mathbf{e} = \{e_x, e_y, g_{xy}\}^T = \left\{u_{,x} + \frac{1}{2}(w_{,x})^2, v_{,y} + \frac{1}{2}(w_{,y})^2, u_{,y} + v_{,x} + w_{,xy}\right\}^T$ curvature flessionali e torsionali $\mathbf{?} = \{k_x, k_y, k_{xy}\}^T = \{-w_{,xx}, -w_{,yy}, -2w_{,yx}\}^T$ scorrimenti angolari $\mathbf{?} = \{g_x, g_y\}^T = \underline{0}$
statica	Sforzi normali $\mathbf{N} = \{N_x, N_y, N_{xy}\}^T$	Sforzi normali $\mathbf{N} = \{N_x, N_y, N_{xy}\}^T$ momenti flettenti e torcente $\mathbf{M} = \{M_x, M_y, M_{xy}\}^T$ sforzi di taglio $\mathbf{T} = \{T_x, T_y\}^T$
legame isotropo	rigidezza estensionale: $H = \frac{Eh}{(1-n^2)}$ $\mathbf{H} = \frac{Eh}{(1-n^2)} \begin{bmatrix} 1 & \nu & 0 \\ \nu & 1 & 0 \\ 0 & 0 & \frac{1}{2}(1-\nu) \end{bmatrix}$ $\mathbf{N} = \mathbf{H}\mathbf{e}$	rigidezza estensionale: $H = \frac{Eh}{(1-n^2)}$ rigidezza flessionale: $D = \frac{Eh^3}{12(1-n^2)}$ $\mathbf{H} = \frac{Eh}{(1-n^2)} \begin{bmatrix} 1 & \nu & 0 \\ \nu & 1 & 0 \\ 0 & 0 & \frac{1}{2}(1-\nu) \end{bmatrix}$ $\mathbf{D} = \frac{Eh^3}{12(1-n^2)} \begin{bmatrix} 1 & \nu & 0 \\ \nu & 1 & 0 \\ 0 & 0 & \frac{1}{2}(1-\nu) \end{bmatrix}$ $\mathbf{N} = \mathbf{H}\mathbf{e}$ $\mathbf{M} = \mathbf{D}\mathbf{?}$
equazioni di campo	$H \left(u_{,xx} + \frac{(1-n)}{2} u_{,yy} + \frac{(1+n)}{2} v_{,xy} \right) + p_x = 0$ $H \left(v_{,yy} + \frac{(1-n)}{2} v_{,xx} + \frac{(1+n)}{2} u_{,xy} \right) + p_y = 0$ equazione in termini di sforzi $\Delta\Delta\Psi = 0$	$\Delta\Delta\Psi = 0$ $-D\Delta\Delta w + \Psi_{,yy} w_{,xx} - 2\Psi_{,yx} w_{,yx} + \Psi_{,xx} w_{,yy} + p_z = 0$
PSV	$\iint_A (d\mathbf{e}^T \mathbf{N}) dA = \iint_A (d\mathbf{u}^T \mathbf{p}) dA$	

