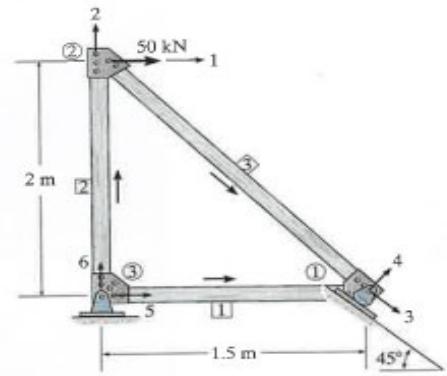
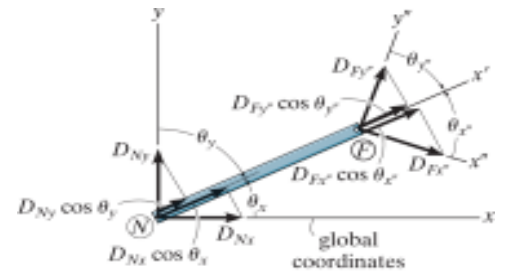


Example 14b-1



$$k = \frac{AE}{L} \begin{bmatrix} \lambda_x^2 & \lambda_x \lambda_y & -\lambda_x \lambda_{x''} & -\lambda_x \lambda_{y''} \\ \lambda_x \lambda_y & \lambda_y^2 & -\lambda_y \lambda_{x''} & -\lambda_y \lambda_{y''} \\ -\lambda_x \lambda_{x''} & -\lambda_y \lambda_{x''} & \lambda_{x''}^2 & \lambda_{x''} \lambda_{y''} \\ -\lambda_x \lambda_{y''} & -\lambda_y \lambda_{y''} & \lambda_{x''} \lambda_{y''} & \lambda_{y''}^2 \end{bmatrix}$$



Element 1

xn	yn	xf	yf	L
0	0	1.5	0	1.5
5	6	3"	4"	
0.6667	0.0000	-0.4714	-0.4714	5
0.0000	0.0000	0.0000	0.0000	6
-0.4714	0.0000	0.3333	0.3333	3"
-0.4714	0.0000	0.3333	0.3333	4"

λ_x	λ_y
1	0

θ_x	θ_y
0	45
45	45

$\lambda_{x''}$	$\lambda_{y''}$
0.7071	0.7071

Element 2

xn	yn	xf	yf	L
0	0	0	2	2
5	6	1	2	
0.0000	0.0000	0.0000	0.0000	5
0.0000	0.5000	0.0000	-0.5000	6
0.0000	0.0000	0.0000	0.0000	1
0.0000	-0.5000	0.0000	0.5000	2

λ_x	λ_y
0	1

θ_x	θ_y
90	90
90	0

$\lambda_{x''}$	$\lambda_{y''}$
0.0000	1.0000

Element 3

xn	yn	xf	yf	L
0	2	1.5	0	2.5
1	2	3"	4"	
0.1440	-0.1920	-0.2376	0.0339	1
-0.1920	0.2560	0.3168	-0.0453	2
-0.2376	0.3168	0.3920	-0.0560	3"
0.0339	-0.0453	-0.0560	0.0080	4"

λ_x	λ_y
0.6	-0.8

θ_x	θ_y
53.1301	8.130102
8.130102	98.1301

$\lambda_{x''}$	$\lambda_{y''}$
0.9899	-0.1414

k1

1	2	3"	4"	5	6
		0.3333	0.3333	-0.4714	0.0000
		0.3333	0.3333	-0.4714	0.0000
		-0.4714	-0.4714	0.6667	0.0000
		0.0000	0.0000	0.0000	0.0000

k2

1	2	3"	4"	5	6
0.0000	0.0000			0.0000	0.0000
0.0000	0.5000			0.0000	0.5000
0.0000	0.0000			0.0000	0.0000
0.0000	0.5000			0.0000	0.5000

k3

1	2	3"	4"	5	6
0.1440	-0.1920	-0.2376	0.0339		
-0.1920	0.2560	0.3168	-0.0453		
-0.2376	0.3168	0.3920	-0.0560		
0.0339	-0.0453	-0.0560	0.0080		

K

1	2	3"	4"	5	6
0.1440	-0.1920	-0.2376	0.0339	0.0000	0.0000
-0.1920	0.7560	0.3168	-0.0453	0.0000	0.5000
-0.2376	0.3168	0.7253	0.2773	-0.4714	0.0000
0.0339	-0.0453	0.2773	0.3413	-0.4714	0.0000
0.0000	0.0000	-0.4714	-0.4714	0.6667	0.0000
0.0000	0.5000	0.0000	0.0000	0.0000	0.5000