

[illegible]



|                       |         |         |         |         |         |         |         |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| -0.4954               | 0.3963  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 1.8576  | 0.4954  | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0.4954  | 1.1889  | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 2.4768  | 0.0000  | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0.0000  | 1.5852  | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 2.4768  | 0.0000  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.0000  | 1.5852  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | 0.4954  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0.4954                | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.6192 | -0.4954 | -0.6192 | 0.4954  | 0       | 0       |
| 0                     | 0       | -0.4954 | -0.3963 | 0.4954  | -0.3963 | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.6192 | -0.4954 | -0.6192 | 0.4954  |
| 0                     | 0       | 0       | 0       | -0.4954 | -0.3963 | 0.4954  | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.6192 | -0.4954 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.4954 | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Columns 25 through 32 |         |         |         |         |         |         |         |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | -0.4954 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.4954               | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | 0.4954  | -0.6192 | -0.4954 | 0       | 0       | 0       | 0       |
| 0.4954                | -0.3963 | -0.4954 | -0.3963 | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.6192 | 0.4954  | -0.6192 | -0.4954 | 0       | 0       |
| 0                     | 0       | 0.4954  | -0.3963 | -0.4954 | -0.3963 | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.6192 | 0.4954  | -0.6192 | -0.4954 |
| 0                     | 0       | 0       | 0       | 0.4954  | -0.3963 | -0.4954 | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.6192 | 0.4954  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.4954  | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 2.4768                | 0.0000  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0.0000                | 1.5852  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 2.4768  | 0.0000  | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0.0000  | 1.5852  | 0       | 0       | 0       | 0       |

|                       |         |         |         |         |         |         |         |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| 0                     | 0       | 0       | 0       | 2.4768  | 0.0000  | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0.0000  | 1.5852  | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 2.4768  | 0.0000  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.0000  | 1.5852  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | 0.4954  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0.4954                | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | -0.4954 | -0.6192 | 0.4954  | 0       | 0       | 0       | 0       |
| -0.4954               | -0.3963 | 0.4954  | -0.3963 | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.6192 | -0.4954 | -0.6192 | 0.4954  | 0       | 0       |
| 0                     | 0       | -0.4954 | -0.3963 | 0.4954  | -0.3963 | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.6192 | -0.4954 | -0.6192 | 0.4954  |
| 0                     | 0       | 0       | 0       | -0.4954 | -0.3963 | 0.4954  | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.6192 | -0.4954 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.4954 | -0.3963 |
| Columns 33 through 40 |         |         |         |         |         |         |         |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | -0.4608 | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | -0.4608 | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | -0.4608 |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | -0.4954 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.4954               | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | 0.4954  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0.4954                | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.6192 | -0.4954 | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.4954 | -0.3963 | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.6192 | 0.4954  | -0.6192 | -0.4954 | 0       | 0       |
| 0                     | 0       | 0.4954  | -0.3963 | -0.4954 | -0.3963 | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.6192 | 0.4954  | -0.6192 | -0.4954 |
| 0                     | 0       | 0       | 0       | 0.4954  | -0.3963 | -0.4954 | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.6192 | 0.4954  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.4954  | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 1.8576                | -0.4954 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.4954               | 1.1889  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 1.7184  | 0.0000  | -0.4800 | 0       | 0       | 0       |
| 0                     | 0       | 0.0000  | 1.2534  | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.4800 | 0       | 2.1984  | 0.0000  | -0.4800 | 0       |
| 0                     | 0       | 0       | 0       | 0.0000  | 1.2534  | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.4800 | 0       | 2.1984  | 0.0000  |

|                       |         |         |         |         |         |         |         |
|-----------------------|---------|---------|---------|---------|---------|---------|---------|
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.0000  | 1.2534  |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.4800 | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | 0.4954  | 0       | 0       | 0       | 0       | 0       | 0       |
| 0.4954                | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| Columns 41 through 48 |         |         |         |         |         |         |         |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | -0.4608 | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | -0.4608 | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | -0.4608 | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | -0.4608 |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | -0.4954 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.4954               | -0.3963 | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.6192               | 0.4954  | -0.6192 | -0.4954 | 0       | 0       | 0       | 0       |
| 0.4954                | -0.3963 | -0.4954 | -0.3963 | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.6192 | 0.4954  | -0.6192 | -0.4954 | 0       | 0       |
| 0                     | 0       | 0.4954  | -0.3963 | -0.4954 | -0.3963 | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.6192 | 0.4954  | -0.6192 | -0.4954 |
| 0                     | 0       | 0       | 0       | 0.4954  | -0.3963 | -0.4954 | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | -0.6192 | 0.4954  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.4954  | -0.3963 |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.4800               | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| 2.1984                | 0.0000  | -0.4800 | 0       | 0       | 0       | 0       | 0       |
| 0.0000                | 1.2534  | 0       | 0       | 0       | 0       | 0       | 0       |
| -0.4800               | 0       | 2.1984  | 0.0000  | -0.4800 | 0       | 0       | 0       |
| 0                     | 0       | 0.0000  | 1.2534  | 0       | 0       | 0       | 0       |
| 0                     | 0       | -0.4800 | 0       | 2.1984  | 0.0000  | -0.4800 | 0       |
| 0                     | 0       | 0       | 0       | 0.0000  | 1.2534  | 0       | 0       |
| 0                     | 0       | 0       | 0       | -0.4800 | 0       | 1.7184  | 0.0000  |
| 0                     | 0       | 0       | 0       | 0       | 0       | 0.0000  | 1.2534  |

--- Comprobación de equilibrio ---

Suma de fuerzas en X: 5.4715e-09 N

Suma de fuerzas en Y: -3.4925e-08 N

--- Resultados ---

Desplazamientos nodales (d):

|         |         |
|---------|---------|
| 0       | 0       |
| 0       | 0       |
| -0.0009 | -0.0063 |
| -0.0008 | -0.0111 |
| -0.0000 | -0.0131 |
| 0.0008  | -0.0111 |
| 0.0009  | -0.0063 |
| 0       | 0       |
| 0       | 0       |
| 0.0004  | 0.0005  |
| 0.0014  | -0.0029 |
| 0.0007  | -0.0089 |
| 0.0002  | -0.0127 |
| -0.0002 | -0.0127 |
| -0.0007 | -0.0089 |
| -0.0014 | -0.0029 |
| -0.0004 | 0.0005  |
| 0.0024  | -0.0012 |
| 0.0029  | -0.0058 |
| 0.0017  | -0.0107 |
| -0.0000 | -0.0126 |
| -0.0017 | -0.0107 |
| -0.0029 | -0.0058 |
| -0.0024 | -0.0012 |

Tensiones en los elementos:

1.0e+07 \*

|         |
|---------|
| 0       |
| -2.9551 |
| 0.4054  |
| 2.5668  |
| 2.5668  |
| 0.4054  |
| -2.9551 |
| 0       |
| 2.2706  |
| 0.0002  |
| -3.8309 |
| -2.7262 |
| 1.2164  |
| 1.8832  |
| -1.3326 |
| 1.0299  |
| 1.2817  |
| -0.6104 |
| 0.1758  |
| 1.3489  |
| 0.1758  |
| -0.6104 |
| 1.2817  |
| 1.0299  |
| -1.3326 |
| 1.8832  |
| 1.2164  |
| -2.7262 |
| -3.8309 |

0.0002  
2.2706  
2.2739  
1.2096  
-2.7264  
1.0335  
-1.3348  
0.1787  
-0.6121  
-0.6121  
0.1787  
-1.3348  
1.0335  
-2.7264  
1.2096  
2.2739  
1.4108  
-3.5567  
-5.5624  
-5.5624  
-3.5567  
1.4108

Barra 48 tiene la máxima tensión de -55623897.672 N

Barras fallidas:

Ninguna barra falló.

--- Reacciones en los Apoyos ---

1.0e+06 \*  
-0.4504  
-0.2353  
0.9865  
1.2353  
-0.0000  
0.0000  
-0.0000  
-0.0000  
-0.0000  
0.0000  
-0.0000  
-0.0000  
0.0000  
0.0000  
-0.9865  
1.2353  
0.4504  
-0.2353  
-0.0000  
0.0000  
0.0000  
-0.0000  
-0.0000  
0.0000  
-0.0000  
0.0000  
-0.0000  
0.0000  
-0.0000  
0.0000  
-0.0000  
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0.0000  
-0.0000  
0.0000  
-0.0000  
-0.0000  
-0.0000  
0.0000  
0.0000  
0.0000  
-0.0000  
0.0000  
0.0000  
-0.0000  
-0.0000  
-0.0000

Procesamiento completado

--- Paso 4: Postprocesamiento ---

Postprocesamiento completado

--- Simulación completada correctamente ---

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