两个节点I j

实常数 kx ky kz krx kry krz 1\*6 double

局部坐标下的单刚矩阵

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | I节点 | | | | | | J节点 | | | | | |
|  |  | ux | uy | uz | rx | ry | rz | ux | uy | uz | rx | ry | rz |
| I节点 | ux | kx |  |  |  |  |  | -kx |  |  |  |  |  |
| uy |  | ky |  |  |  |  |  | -ky |  |  |  |  |
| uz |  |  | kz |  |  |  |  |  | -kz |  |  |  |
| rx |  |  |  | krx |  |  |  |  |  | -krx |  |  |
| ry |  |  |  |  | kry |  |  |  |  |  | -kry |  |
| rz |  |  |  |  |  | krz |  |  |  |  |  | -krz |
| J节点 | ux |  |  |  |  |  |  | kx |  |  |  |  |  |
| uy |  |  |  |  |  |  |  | ky |  |  |  |  |
| uz |  |  |  |  |  |  |  |  | kz |  |  |  |
| rx |  |  |  |  |  |  |  |  |  | krx |  |  |
| ry |  |  |  |  |  |  |  |  |  |  | kry |  |
| rz |  |  |  |  |  |  |  |  |  |  |  | krz |