|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Eslabon | Ai-L | αL-1 | dL | θ |
| 1 | 0 | 90 | 0 | θ1 |
| 2 | L1 | 0 | D1 | θ2 |
| 3 | L2 | 90 | D2 | θ3 |

T1=

|  |  |  |  |
| --- | --- | --- | --- |
| Cθ1 | -Sθ1 | 0 | 0 |
| 0 | 0 | -1 | -1 |
| Sθt-1 | Cθt+1 | 0 | -1 |
| 0 | 0 | 0 | 1 |

T2=

|  |  |  |  |
| --- | --- | --- | --- |
| Cθ2 | -Sθ2 | 0 | 0 |
| 0 | 0 | -1 | -Dt-1 |
| Sθ2-1 | Cθ2+1 | 0 | 0 |
| 0 | 0 | 0 | 1 |

T3=

|  |  |  |  |
| --- | --- | --- | --- |
| Cθ3 | -Sθ3 | 0 | L2 |
| 0 | 0 | -1 | D2-1 |
| Sθ3-1 | Cθ3+1 | 0 | 0 |
| 0 | 0 | 0 | 1 |

T3xT2=

|  |  |  |  |
| --- | --- | --- | --- |
| C2θ3θ2 | -Cθ3Sθ2 | θ3S | L2-θ3S(-D1) |
| -(Sθ2-1) | -Cθ2 | 0 | -D2 |
| Cθ2(θ3S-1) | -Sθ2(θ3S-1) | -Cθ3 | Cθ3D1 |
| 0 | 0 | 0 | 1 |

T1(T3xT2)=

|  |  |  |  |
| --- | --- | --- | --- |
| C3θ3θ2θ1+θ3S(Sθ1-1) | C2θ3θ2Sθ1+Cθ3Sθ1 | Cθ3θ2S | Cθ3θ2S+θ3SD1-θ3S+L2 |
| -Cθ1(θ2S-1) | Sθ1(θ2S-1) | Cθ2 | Cθ2-D2 |
| C2θ2θ1(θ3S-1) | -C2θ3θ1-Cθ2Sθ 1(θ3S-1) | θ2S(θ3S-1) | Cθ3-Cθ3D1+θ2S(θ3S-1) |
| 0 | 0 | 0’ | 1 |