|  |  |  |  |
| --- | --- | --- | --- |
| Notation | Description | size | Unit |
|  | No of links |  | Unit less |
| dof | Degree of Freedom | 1 |  |
| type | Open loop or closed loop (1) | 1 | Unit less |
| alp | Twist angle |  | Radian (Rad) |
|  | Link length |  | Metre |
|  | Joint offset |  | Metre |
| t | Parent link number | 1 | - |
| th | Joint angle |  | Radian (Rad) |
| thi | Initial Joint angle |  | Radian or Metre |
| thf | Final Joint angle |  | Radian Rad or Metre |
|  | Parent link |  | Unit less |
|  | Joint type Revolute (1) / Prismatic (0) joint |  | Unit less |
|  | Distance of CG from origin of a link along local -axis |  | Metre |
|  | Distance of CG from origin of a link along local -axis |  | Metre |
|  | Distance of CG from origin of a link along local z-axis |  | Metre |
|  | Mass |  | Kilogram |
|  | Gravitational acceleration |  |  |
| Icxx | MOI at CG about local -axis |  |  |
| Icyy | MOI at about local -axis |  |  |
| IczZ | MOI at CG about local z-axis |  |  |
| Icxy | |  | | --- | | MOI at CG about local -axis but link rotates about local | | -axis | |  |  |
| Icyz | |  | | --- | | Mass moment of inertia at CG about local y-axis but link | | rotates about local z-axis | |  |  |
| Iczx | |  | | --- | | Mass moment of inertia at CG about local -axis but link | | rotates about local -axis | |  |  |
|  | Actuated (1) / Under-actuated (0) joint |  | Unit less |
| al | Physical link-length |  | Metre |
|  | Time of simulation | 1 | Second |
| steps | No of time-steps for simulation | 1 | Second |

* Modified DH parameter is used in this application
* MOI is the moment of inertia