|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Joint | 𝜃𝑖 | 𝛼 | ai | di |
| 1 | 𝜃1 | 90o | 0 | d1 |
| 2 | 𝜃2 | 0 | a2 | 0 |
| 3 | 𝜃3 | 0 | a3 | 0 |
| 4 | 𝜃4 | 0 | a4 | 0 |
| 5 | 𝜃5 | 90o | 0 | 0 |
| 6 | 𝜃6 | 0 | 0 | d2 |

• 𝜽, represented a rotation about z-axis,

• 𝒅, represented the distance on the z-axis between two successive common normal,

• 𝒂, represented the length of each common normal, also defined as length of a link,

• 𝜶, represented the angle between two successive z-axes, also defined as joint twist angle.

iAi-1

= C𝛉𝒊 -S𝜽𝒊C𝛂𝒊 S𝜽𝒊S𝜶𝒊 a𝒊C𝜽𝒊

S𝜽𝒊 C𝜽𝒊C𝛂𝒊 -C𝜽𝒊S𝜶𝒊 a𝒊S𝜽𝒊

0 S𝜶𝒊 C𝜶𝒊 d𝒊

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