

▼ Transformation Matrix for One Joint

$$A1 := \begin{bmatrix} \cos(\theta) & -\sin(\theta) & 0 & 0 \\ \sin(\theta) & \cos(\theta) & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} ; \quad A2 := \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & d \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

$$A3 := \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & \cos(\alpha) & -\sin(\alpha) & 0 \\ 0 & \sin(\alpha) & \cos(\alpha) & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} ; \quad A4 := \begin{bmatrix} 1 & 0 & 0 & a \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$$

$$H := B1 \cdot B2 = \begin{bmatrix} \cos(\theta) & -\sin(\theta) \cos(\alpha) & \sin(\theta) \sin(\alpha) & \cos(\theta) \\ \sin(\theta) & \cos(\theta) \cos(\alpha) & -\cos(\theta) \sin(\alpha) & \sin(\theta) \\ 0 & \sin(\alpha) & \cos(\alpha) & d \\ 0 & 0 & 0 & 1 \end{bmatrix}$$



▼ Transformation Matrix of Tip wrt Base

Use parameters for a sequence of three arms and compute the transformation matrix for the tip of the robot with respect to its base.

```
> H1 := eval(H, [theta = theta1, alpha = -pi/2, a = 0, d = lengthArm1]) :
H2 := eval(H, [theta = theta2, alpha = 0, d = 0, a = lengthArm2]) :
H3 := eval(H, [theta = theta3, alpha = 0, a = lengthArm3 + lengthTip, d = 0]) :
H14 := H1 * H2 * H3 :
```

▼ Deriving Joint Angles

First angle

$$v := (0, 0, 0, 1) :$$

$$w := H14 \cdot v :$$

$$eq1 := \frac{w_1}{w_2} = \frac{x}{y} :$$

$$\theta1 := \text{solve}(eq1, \theta1) = \arctan\left(\frac{y}{x}\right)$$

Second angle

$$u := w_1^2 + w_2^2 + w_3^2 - A :$$

$$v := w_3 - z :$$

$$W := \text{simplify}(u - 2 \cdot \text{lengthArm1} \cdot v) :$$

$$\theta := \text{solve}(W, \theta3) :$$

$$\theta2 := \text{eval}(\theta, A = x^2 + y^2) =$$

$$\arccos\left(\frac{1}{2} \frac{x^2 + y^2 + z^2 - 2z \cdot \text{lengthArm1} + \text{lengthArm1}^2 - \text{lengthArm2}^2 - \text{lengthArm3}^2 - 2 \cdot \text{lengthArm3} \cdot \text{lengthTip} - \text{lengthTip}^2}{\text{lengthArm2} (\text{lengthArm3} + \text{lengthTip})}\right)$$

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1. Understanding the eBook Maple Application For Engineers
 - The Rise of Digital Reading Maple Application For Engineers
 - Advantages of eBooks Over Traditional Books
2. Identifying Maple Application For Engineers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Maple Application For Engineers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maple Application For Engineers
 - Personalized Recommendations
 - Maple Application For Engineers User Reviews and Ratings
 - Maple Application For Engineers and Bestseller Lists

5. Accessing Maple Application For Engineers Free and Paid eBooks
 - Maple Application For Engineers Public Domain eBooks
 - Maple Application For Engineers eBook Subscription Services
 - Maple Application For Engineers Budget-Friendly Options
6. Navigating Maple Application For Engineers eBook Formats
 - ePub, PDF, MOBI, and More
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 - Maple Application For Engineers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maple Application For Engineers
 - Highlighting and Note-Taking Maple Application For Engineers
 - Interactive Elements Maple Application For Engineers
8. Staying Engaged with Maple Application For Engineers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maple Application For Engineers
9. Balancing eBooks and Physical Books Maple Application For Engineers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maple Application For Engineers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maple Application For Engineers
 - Setting Reading Goals Maple Application For Engineers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maple Application For Engineers
 - Fact-Checking eBook Content of Maple Application For Engineers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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