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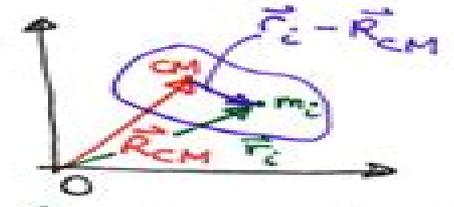
MH

K-H

10.6

3.8 Classical spin - angular momentum about the CM

For a system of masses (discrete or continuous) we can define total angular momentum w.r.t. O as



$$\vec{L}_O = \sum_i \vec{r}_i \times \vec{p}_i = \sum_i m_i (\vec{r}_i \times \vec{v}_i) \quad \vec{L}_O \text{ changes with } O!$$

$$\vec{R}_{CM} := \frac{1}{M} \sum_i m_i \vec{r}_i \quad , \quad \text{where } M = \sum_i m_i$$

now add to \vec{L}_O a zero $0 = \sum_i m_i (\vec{R}_{CM} \times \vec{v}_i) - \sum_i m_i (\vec{R}_{CM} \times \vec{v}_i)$

$$\vec{L}_O = \underbrace{\sum_i (\vec{r}_i - \vec{R}_{CM}) \times \vec{p}_i}_{\vec{L}_{tot} \text{ w.r.t. } \vec{R}_{CM}} + \underbrace{\sum_i \vec{R}_{CM} \times \vec{p}_i}_{= \vec{R}_{CM} \times \sum_i \vec{p}_i = \vec{R}_{CM} \times \vec{P}} = \vec{L}_{CM} + \vec{R}_{CM} \times \vec{P}$$

Angular momentum about O = angular momentum about CM + angular momentum of CM about O .

$\vec{L}_{CM} := \sum_i (\vec{r}_i - \vec{R}_{CM}) \times \vec{p}_i$ is the intrinsic angular momentum or classical spin of the body.

No external torques on CM $\Rightarrow \frac{d}{dt} \vec{L}_{CM} = 0$

or: $\frac{d}{dt} \vec{L}_{CM} = \vec{N}_{CM}^{ext}$

The CM provides a natural reference system for calculating angular momentum and torque in an N-body object.

Application: Earth's rotation axis points currently towards the North star (polar star). This axis, however, sweeps out a cone with 23.5° opening angle, and period 25,800 years. Implication: External forces generate a precession.

Assignment Classical Mechanics Solution

David Morin



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Assignment Classical Mechanic Solution Book Review: Unveiling the Power of Words

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Table of Contents Assignment Classical Mechanic Solution

1. Understanding the eBook Assignment Classical Mechanic Solution
 - The Rise of Digital Reading Assignment Classical Mechanic Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Assignment Classical Mechanic Solution
 - 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 Assignment Classical Mechanic Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Assignment Classical Mechanic Solution
 - Personalized Recommendations
 - Assignment Classical Mechanic Solution User Reviews and Ratings

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