

Chapter 1

Gravitoelectromagnetism: A Brief Review

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Abstract. The main theoretical aspects of gravitoelectromagnetism (“GEM”) are presented. Two basic approaches to this subject are described and the role of the gravitational Larmor theorem is emphasized. Some of the consequences of GEM are briefly mentioned.

1.1 Introduction

The analogy between gravitation and electromagnetism has a long history. The similarity between Newton’s law of gravitation and Coulomb’s law of electricity naturally led to a gravitoelectric description of Newtonian gravitation. Moreover, on the basis of advances in electrodynamics in the second half of the nineteenth century, Holzmüller [1] and Tisserand [2] postulated that the gravitational force exerted by the Sun on the planets of the solar system had an additional “magnetic” component. This extra force led to the precession of the planetary orbits; therefore, it could be adjusted in order to account for the excess perihelion precession of Mercury. Decades later, however, Einstein’s general relativity provided a beautiful explanation of the excess motion of Mercury’s perihelion in terms of a relativistic gravitoelectric correction to the Newtonian gravitational potential of the Sun [3]. Furthermore, general relativity, which is a field theory of gravitation, contains a gravitomagnetic field due to mass current [4]. Indeed, to bring together Newtonian gravitation and Lorentz invariance in a consistent field-theoretic framework, the introduction of a gravitomagnetic field is unavoidable.

Gravitoelectromagnetism A Brief Review

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Table of Contents Gravitoelectromagnetism A Brief Review

1. Understanding the eBook Gravitoelectromagnetism A Brief Review
 - The Rise of Digital Reading Gravitoelectromagnetism A Brief Review
 - Advantages of eBooks Over Traditional Books
2. Identifying Gravitoelectromagnetism A Brief Review
 - 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 Gravitoelectromagnetism A Brief Review
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gravitoelectromagnetism A Brief Review

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

- Fact-Checking eBook Content of Gravitoelectromagnetism A Brief Review
 - 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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