

Dual dynamically tunable terahertz graphene-based plasmonic induced transparency and slow light effects

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Abstract

A novel single-layer graphene-based structure is designed in this article. This structure consists of two graphene strips and two graphene blocks. The components of this structure generate two bright modes and one dark mode in the terahertz region, and these three modes undergo destructive interference, leading to the phenomenon of double plasmonic induced transparency. The graphene of this structure has continuity, and the Fermi level can be adjusted by adjusting the bias voltage applied to the structure. Compared with those discontinuous structures, it is easier to achieve tuning function. The structure uses the finite-difference time-domain for data simulation, uses the coupled mode theory for theoretic calculation, and compares the transmission spectra obtained by the two methods. Through observation, it can be found that the frequency positions of the peaks and dips of the simulated transmission spectrum increase with the increase of the Fermi level, showing a perfect linear relationship, which indicates that this structure has great prospects in the modulator. In addition, the structure has achieved good results in the slow light effect, and after measurement, the peak values of group index and group delay can reach up to 380 and 0.241 ps, respectively. By utilizing these advantages, this structure can provide more possibilities for the development and research of slow light fields.

Keywords: plasmonics, metamaterials, integrated optics devices

1. Introduction

In recent years, with the increasing attention and understanding of researchers on metamaterial, graphene has entered the vision of researchers [1–4]. Graphene has the advantages of high electrical conductivity, long lifetime plasmon excitation, low loss, and easy modulation [5, 6], thus is widely used in optics [7–10], materials science [11–13], micro/nano processing [14, 15], energy [16] and other fields. With the

deepening of research, scientists have found that single-layer graphene exhibits similar properties to metals in the terahertz band, and can successfully excite surface plasmons polaritons. Graphene-based metasurfaces can also achieve plasmonic induced transparency (PIT) phenomena. The traditional electromagnetic induced transparency (EIT) [17] effect is a typical quantum coherent effect, which essentially prevents atoms at the atomic level from participating in the coupling of light under the action of the coupling field, thereby gradually reducing the absorption of weak probe light by the medium and even making it completely transparent. And PIT is a phenomenon similar to EIT that occurs at the resonant frequency

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Table of Contents Slow Transparency

1. Understanding the eBook Slow Transparency
 - The Rise of Digital Reading Slow Transparency
 - Advantages of eBooks Over Traditional Books
2. Identifying Slow Transparency
 - 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 Slow Transparency
 - User-Friendly Interface
4. Exploring eBook Recommendations from Slow Transparency
 - Personalized Recommendations
 - Slow Transparency User Reviews and Ratings
 - Slow Transparency and Bestseller Lists
5. Accessing Slow Transparency Free and Paid eBooks
 - Slow Transparency Public Domain eBooks
 - Slow Transparency eBook Subscription Services
 - Slow Transparency Budget-Friendly Options

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