

Co-Prime Modulation for Space-Time-Coding Digital Metasurfaces with Ultralow-Scattering Characteristics

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Multi-dimensional modulation of electromagnetic (EM) waves is critical in various fields such as electronic and photonic systems. Space-time-coding (STC) digital metasurfaces, an innovative platform for programmable metasurfaces, offer a straightforward and robust solution for spatio-temporal modulation, thereby enabling EM-wave manipulations in both space and frequency. Conventional STC schemes rely on periodic temporal modulations that are uniform in space (i.e., with same modulation frequency in all metasurface elements), and therefore do not take advantage of spatio-temporal coupling effects that can be induced by non-uniform periodic modulations (i.e., with different modulation frequencies across the metasurface elements). Here, a novel approach involving non-uniform spatio-temporal modulation, alongside co-prime modulation, is introduced. This approach enhances the fundamental principles of STC digital metasurfaces and facilitates the synthesis of angular scattering responses across different frequencies, guided by harmonic coupling conditions. The proposed strategy results in a more even distribution of the scattered intensity in both space and frequency. For validation, an experimental proof-of-principle for spatial-spectral diffuse scattering is presented. The experimental outcomes align closely with theoretical predictions, underscoring the effectiveness of co-prime modulation in achieving ultralow-scattering characteristics in STC digital metasurfaces. Moreover, this technique holds promise for applications in secure wireless communications, radar jamming, and complex beamforming.

1. Introduction

Metamaterials are artificially engineered structures with sub-wavelength meta-atoms that have played a prominent role in the past decades for manipulating various aspects of electromagnetic (EM) waves, including their amplitude, phase, momentum, polarization and frequency.^[1–5] The advent of 2D versions (“metasurfaces”) has enabled complex wave-matter interactions on ultrathin artificial surfaces.^[6,7] Among the exciting developments are reconfigurable and programmable metasurfaces, which offer the ability to dynamically control EM waves in real time.^[8,9] In particular, programmable metasurfaces employing digital modulation techniques have gained significant attention across different domains, such as microwaves,^[10] terahertz,^[11,12] optics,^[13] and acoustics.^[14] Their straightforward design and hardware architecture make them versatile for a wide range of applications, including beam steering,^[15–18] scattering reduction,^[19,20] mathematical operations,^[21,22] programmable holograms,^[9,23] intelligent imaging,^[24] self-adaptive EM devices,^[25,26] programmable artificial-intelligence architectures,^[27] wireless transmitters,^[22,28] and reconfigurable intelligent surfaces.^[24,29]

Recently, the field of spatio-temporal metamaterials and metasurfaces has emerged as a highly promising avenue. This approach introduces an extra dimension of control – time – leading to unparalleled capabilities in wave manipulation and the discovery of intriguing physical phenomena and applications.^[30–34] In 2018, we put forward the concept of space-time-coding (STC) digital metasurfaces, building upon the digital programmable metasurface platform.^[35] By dynamically switching the elements’ constitutive parameters (e.g., amplitudes and/or phases) in both space and time, we demonstrated that STC digital metasurfaces can simultaneously manipulate waves and information in spatial and frequency domains. This concept has resonated through the fields of wave physics and communications, leading to a range of exciting applications.^[36] These include beam steering and shaping,^[35,37,38] harmonic manipulations,^[39,40,41] scattering-signature control,^[42] breaking reciprocity,^[43,44] analog signal

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Table of Contents Solution Manual Space Time Coding

1. Understanding the eBook Solution Manual Space Time Coding
 - The Rise of Digital Reading Solution Manual Space Time Coding
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Space Time Coding
 - 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 a Solution Manual Space Time Coding
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Space Time Coding
 - Personalized Recommendations

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

- 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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