



Direct-Detection LADAR Systems

When a surface is illuminated by light, the way in which the energy is reflected depends on the surface. Rough targets scatter the incident electromagnetic energy diffusely, and the intensity of the reflected signal decreases as the wavelength of the illuminating signal increases.

Smooth surfaces, when illuminated with longer-wavelength radiation, reflect the incident energy more specularly, and the intensity of the reflected signal also decreases. At the longest wavelengths, the largest fraction of the incident energy is reflected at angles other than the specular angle, and the intensity of the reflected signal decreases as the target viewing angle changes. As the wavelength increases, the fraction of the incident energy that is reflected at angles other than the specular angle increases, and the intensity of the reflected signal decreases.

Richard D. Richmond
Stephen C. Cain

Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series

SJ Ball



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Direct-detection LADAR Systems Richard D. Richmond, Stephen C. Cain, 2010 This text is designed to introduce engineers in training to the basic concepts and operation of 3D imaging LADAR systems The book covers laser range equations sources of noise in LADAR signals LADAR waveforms the effects of wavefront propagation on LADAR beams through optical systems and atmospheric turbulence algorithms for detecting ranging and tracking targets and comprehensive system simulation Computer code for accomplishing the many examples appearing throughout the text is provided Exercises appear at the end of each chapter allowing students to apply concepts studied throughout the text to fundamental problems encountered by LADAR engineers Also included is a CD ROM with the MATLAB code from the examples

Introduction to Optical Testing Joseph M. Geary, 1993 This volume in the SPIE Tutorial Text series presents a practical approach to optical testing with emphasis on techniques procedures and instrumentation rather than mathematical analysis The author provides the reader with a basic understanding of the measurements made and the tools used to make those measurements Detailed information is given on how to measure and characterize imaging systems perform optical bench measurements to determine first and third order properties of optical systems set up and operate a Fizeau interferometer and evaluate fringe data conduct beam diagnostics such as wavefront sensing and perform radiometric calibrations

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Table of Contents Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series

1. Understanding the eBook Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - The Rise of Digital Reading Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Advantages of eBooks Over Traditional Books
2. Identifying Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - 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 Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
- User-Friendly Interface
- 4. Exploring eBook Recommendations from Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Personalized Recommendations
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series User Reviews and Ratings
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series and Bestseller Lists
- 5. Accessing Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series Free and Paid eBooks
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series Public Domain eBooks
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series eBook Subscription Services
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series Budget-Friendly Options
- 6. Navigating Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series eBook Formats
 - ePub, PDF, MOBI, and More
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series Compatibility with Devices
 - Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Highlighting and Note-Taking Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series

- Interactive Elements Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
- 8. Staying Engaged with Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
- 9. Balancing eBooks and Physical Books Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Setting Reading Goals Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - Fact-Checking eBook Content of Direct Detection Ladar Systems Spie Tutorial Text Vol Tt85 Tutorial Texts In Optical Engineering Series
 - 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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