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Direct Detection Ladar Systems Spie

Spie Press Book Direct-Detection LADAR Systems. Author(s): Richard D. Richmond; Stephen C. Cain. Format Member Price Non-Member Price; Softcover: \$46.75 \$55.00 PDF: \$39.95 \$47.00 Add to cart. Book Description. This text is designed to introduce engineers-in-training to the basic concepts and operation of 3D imaging LADAR systems. ...

Direct-Detection LADAR Systems | (2010) | Richmond ... - SPIE

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 ...

Direct-Detection LADAR Systems - spiedigitallibrary.org

Direct-Detection LADAR Systems (SPIE Tutorial Text Vol. TT85) (Tutorial Texts in Optical Engineering Series) [Richard D. Richmond, Stephen C. Cain] on Amazon.com. *FREE* shipping on qualifying offers. Direct-Detection LADAR Systems (SPIE Tutorial Text Vol. TT85) (Tutorial Texts in Optical Engineering Series)

Direct-Detection LADAR Systems (SPIE Tutorial Text Vol ...

(PDF) Direct-Detection LADAR Systems (SPIE Tutorial Text Vol. TT85) (Tutorial Texts in Optical Engineering Series | Ahmed Elghandour - Academia.edu Academia.edu is a platform for academics to share research papers.

(PDF) Direct-Detection LADAR Systems (SPIE Tutorial Text ...

The National Institute of Standards and Technology (NIST) adopted the term LADAR (LAsER Detection And Ranging) for these laser-based RADAR-type systems. That term will be used in this text. Online access to SPIE eBooks is limited to subscribing institutions.

Introduction to LADAR Systems - SPIE

This chapter describes 2D and 3D LADAR systems that perform an imaging function in addition to ranging. A 2D system is one that captures an

image of the target area between a minimum and maximum range. This process of selecting a set of ranges through which to form an image is referred to as gated viewing.

LADAR Imaging Systems - SPIE

Chapter 1 featured the computation of signal power measured from a laser pulse reflected from a target. The assumed waveform of the pulse was a rectangular function in time. This chapter describes more complicated waveform models that will allow for a better temporal understanding of a LADAR system's performance.

LADAR Waveform Models - SPIE

2.2. Calculating the Detection/Recognition Threshold. In order to use Eq. () to determine the laser power that must be transmitted, P_T , to achieve detection at a given ladar range, we must first determine how much optical signal power, P_R , we need to receive in order to meet the desired probability of detection and false alarm requirements. The P_R term in Eq.

Review of ladar: a historic, yet emerging, sensor ... - SPIE

Standoff detection of explosives in open environment using enhanced photodissociation fluorescence ... Scene-based algorithm for range/intensity estimation correction for the flash 3D ladar system Author(s): Steven Jordan; Ernest Armstrong ... Create a free SPIE account to get access to premium articles and original research.

Laser Radar Technology and Applications XV | (2010 ... - SPIE

Direct Detection LADAR Systems is designed to introduce engineers-in-training to the basic concepts and operation of 3D- imaging LADAR systems.

Direct Detection LADAR Systems B-SPIE-008

Direct-Detection LADAR Systems Richard D. Richmond Stephen C. Cain Tutorial Texts in Optical Engineering Volume TT85 SPIE PRESS Bellingham, Washington USA . Contents Preface xi Mathematical Notation xiii Chapter 1 Introduction to LADAR Systems 1 1.1 Background 1 1.2 LADAR and RADAR Fundamentals 1

Direct- Detection LADAR - GBV

Direct-Detection LADAR Systems (SPIE Tutorial Text Vol. TT85) (Tutorial Texts in Optical Engineering Series) Richard D. Richmond, Stephen C. Cain This text is designed to introduce engineers-in-training to the basic concepts and operation of 3D imaging LADAR systems.

Direct-Detection LADAR Systems (SPIE Tutorial Text Vol ...

Elastic LADAR Modeling for Synthetic Imaging Applications Robin R. Burton, John R. Schott, and Scott D. Brown ... detection, and agriculture monitoring. The Digital Imaging and Remote Sensing Image Generation (DIRSIG) model is a synthetic imagery gen- ... many LADAR systems the beam propagates through a turbulent atmosphere, reflects off a ...

Elastic LADAR Modeling for Synthetic Imaging Applications

addresses both direct and coherent detection ladar and per- ... Coherent ladar systems have the capability to perform. ... parison of coherent and direct detection receivers, " Proc. SPIE 4377 ...

(PDF) Review of ladar: A historic, yet emerging, sensor ...

The goals of the DARPA Jigsaw program include the development and demonstration of high-resolution 3-D imaging laser radar (ladar) sensor technology and systems that can be used from airborne platforms to image and identify military ground vehicles that may be hiding under camouflage or foliage such as tree canopy.

High-resolution 3D imaging laser radar flight test ... - SPIE

A full waveform simulation is implemented that models optical signals received on detector followed by electronic signals and discriminators commonly encountered in contemporary direct-detection ladar systems. Waveforms are modeled using a novel hexagonal sampling process applied across the ladar beam footprint.

Simulation and modeling of return waveforms from a ladar ...

Richard D. Richmond and Stephen C. Cain, Direct Detection LADAR Systems, SPIE . press, Bellingham, WA, 2010 ... Stephen C.Cain, "Improved space object detection via scintillated short-exposure image data", Proceedings of the SPIE 9982, Unconventional Imaging and Wavefront Sensing XII, San Diego, CA August 2017 ...

AFIT Bio for Dr. Stephen C. Cain Associate Professor ...

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Amazon.com: Customer reviews: Direct-Detection LADAR ...

A direct detection time-of-flight ladar simulator has been developed to synthesize noisy realizations of true range for the purpose of testing the performance of target recognition algorithms. The simulator can model either peak report or peak report above a threshold using computationally efficient analytic models.

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