ZTP Thermal & Power

Emergency Communication Optical Modulator Anti-tracking

Emergency Communication Optical Modulator Anti-tracking

Wideband Anti-Jamming Based on Free Space Optical

We propose and demonstrate an anti-jamming system to defend against wideband jamming attack. Free space optical communication is deployed

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ELECTROMAGNETIC SPECTRUM OPERATIONS

There is a need to provide software control of a variety of modulation techniques, wide-band or narrow-band modulation, communications security functions, and waveform requirements of

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Electro-optical targeting system

EOTS technology is designed for day and night operations, features stabilized lines of sight and automatic target tracking allowing operators to engage targets with

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Experimental demonstration of an improved control design and

The obtained steady-state response performance during the adjustment process indicates that the tracking errors are below 1.3 urad. The improved control design and algorithm

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(PDF) High-velocity measurement method in dual

The high-velocity laser interference tracker developed by this new method can be used in the field of large-scale space precision measurement

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Anti-UAV detection and identification technology

Table 2 summarizes several existing datasets for anti-UAV detection and tracking, including their features, data size, data types, and application scenarios. These datasets play an

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Achieving Hiding and Smart Anti-Jamming Communication: A Parallel

Evasion through the frequency domain is effective when the jammer's tracking capabilities are weak. However, as jamming tech-niques have advanced, , jammers now detect and track

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A novel approach to wireless electromagnetic tracking using

Purpose Electromagnetic tracking (EMT) is beneficial in image-guided interventions to reduce the use of ionising radiation-based imaging techniques. Enabling wirelessly tracked sensors

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Design Techniques for High-Efficiency Envelope-Tracking Supply

This brief provides a brief tutorial on designing a high efficiency envelope-tracking supply modulator with recent techniques. Design challenges for 5G communication applications are given. Detailed

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Machine learning and deep learning in FSO communication: A

Free space optical (FSO) communication systems offer high-bandwidth, secure data transmission over wireless channels. Recent advancements in machine learning (ML)

and deep

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A novel approach to wireless electromagnetic tracking

Download Citation , A novel approach to wireless electromagnetic tracking using frequencymodulationradiocommunication,Purpose:Electromagnetictracking(EMT)is beneficial in

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Advances in Anti-Deception Jamming Strategies for Radar Systems:

In , the au-gies involve superimposing amplitude modulation to create thors propose cooperative dual-source jamming approach to false angular data in sequential tracking radar systems .

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Ultra-broadband near

Here,weco-designthepassivecomponentsandmodulationelectrodesanddemonstrate ahigh-speedTFLNEOmodulatorwitharecord-breakingcontinuousoperationalrangeof 1260-2060

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High-order direct modulation terahertz communications

Here, we propose a high-order direct modulation terahertz communication scheme based on a time-coding metachip modulator, achieving

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Modulators for Terahertz Communication: The Current

With the increase of communication frequency, terahertz (THz) communication

technology has been an important research field; particularly the terahertz

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Acceptance Testing and Quality Control of Digital Radiographic

Whereas many of the traditional tests based on screen-film had target values and tolerances expressed in units of optical density, targets and tolerances for digital radiographic systems must be expressed

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Revolutionizing Free-Space Optics: A Survey of

Asthedemandforhigh-speed,low-latencycommunicationcontinuestogrow,free-space optical (FSO) communication has gained prominence as a

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A comprehensive survey on optical modulation techniques for

This article presents a comprehensive review of various optical modulation technologies, including electro-optic, all-optical, acousto-optic, thermo-optic, and magneto-optic modulation.

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On-chip silicon electro-optical modulator with ultra-high extinction

On-chip optoelectronic devices are promising to build compact and efficient distributed acoustic sensing (DAS) systems. Here, the authors demonstrate an ultra-high extinction ratio electro

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Electronic Surveillance and Countermeasure Solutions

This includes all types of communication, radars, weapons, and devices that are used to

locate potential targets using emissions across a wide range of frequencies.

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Electro-optic Modulators - EOM, Pockels cells, phase

Electro-optic modulators are fast optical amplitude or phase modulators based on the electro-optic effect.

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An Overview of Emergency Communication Networks

In recent years, major natural disasters and public safety accidents have frequently occurred worldwide. In order to deal with various disasters and

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A New Improved Multi-Sequence Frequency-Hopping

Reference proposed that the anti-jamming advantage of dual-sequence frequency hopping communication is applied to meet the anti-jamming

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Design Techniques for High-Efficiency Envelope-Tracking Supply

Abstract--This brief provides a brief tutorial on designing a high efficiency envelope-tracking supply modulator with recent techniques. Design challenges for 5G communication applica-tions are

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(PDF) An Overview of Emergency Communication

Weproposeabroadband-narrowbandintegratedemergencycommunicationnetworkto provide an effective solution for visual dispatch of

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Practical Uses and Applications of Electro-Optic Modulators

Electro-optic amplitude and phase modulators allow you to control the amplitude, phase, and polarization state of an optical beam electrically. For instance, in

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Modulation and Detection Techniques for Optical Communication

Throughout this paper, we consider fiber or free-space systems that use optical amplifiers and/or nonlinear optical wavelength converters, and assume that that amplified spontaneous emission

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Microsoft Word

Abstract -- The paper presents the hardware architecture of the Galileo PRS receiver developed within the BaSE project, and describes the core technologies required for using the Galileo PRS service.

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