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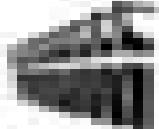
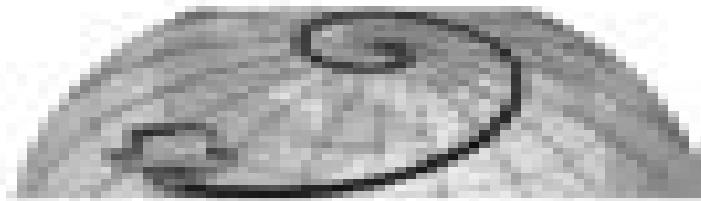
Optical detection using four-layer semiconducting structures

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Optical Detection Using Four Layer Semiconductor Structures

B Lingard

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Optical Detection Using Four-Layer Semiconductor Structures ,2005 The application of a thyristor a four layer P1 N1 P2 N2 semiconductor structure as an optical detector is explored Based on laboratory experiments which demonstrated that this device produces a pulse mode output to incident light the thyristor is investigated by comparing the existing theory of static forward biased operation to simulation results obtained using ATLAS by Silvaco Inc The results include identification of the holding point on the IV curve by simulating the junction potential across each junction as a function of current and demonstration that impact ionization is not a critical factor in thyristor operation A series of simulations were performed which show that the thyristor can be optimized for use as a detector by decreasing the emitter efficiencies by decreasing the doping in the P1 and N2 layers or by increasing the doping in the P2 layer the switching voltage can be controlled by selecting the doping and thickness of the N1 layer A detector device was designed to allow further testing of the thyristor detector using the ABN CMOS process from AMI Semiconductor via the MOSIS service The design of this device is discussed and simulated IV curves are presented **Official Gazette of the United States Patent and Trademark Office** United States. Patent and Trademark Office,2001 Scientific and Technical Aerospace Reports ,1970 **Optics Letters** ,2008

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Chemical Abstracts ,2002 **Journal of the Optical Society of America** ,1986 Second Order Non-linear Optics of Silicon and Silicon Nanostructures O. A. Aktsipetrov,I. M. Baranova,K. N. Evtyukhov,2018-09-03 The theory and practice of the non linear optics of silicon are inextricably linked with a variety of areas of solid state physics particularly semiconductor physics However the current literature linking these fields is scattered across various sources and is lacking in depth Second Order Non linear Optics of Silicon and Silicon Nanostructures describes the physical properties of silicon as they apply to non linear optics while also covering details of the physics of semiconductors The book contains six chapters that focus on The physical properties and linear optics of silicon Basic theoretical concepts of reflected second harmonics RSH The authors theory of the generation of RSH at the non linear medium linear medium interface An analytical review of work on the non linear optics of silicon The results of non linear optical studies of silicon nanostructures A theory of photoinduced electronic processes in semiconductors and their influence on RSH generation The book also includes methodological problems and a significant amount of reference data It not only reflects the current state of research but also provides a single thorough source of introductory information for those who are becoming familiar with non linear optics Second Order Non linear Optics of Silicon and Silicon Nanostructures is a valuable contribution to the fields of non linear optics semiconductor physics and microelectronics as well as a useful resource for a wide range of readers from undergraduates to researchers

Canadian Journal of Physics ,1988 Semiconductors ,2006 Pulse Mode Light Sensing Using Four-layer

Semiconductor Structures and Their Application in Neural Networks Ioannis Siganos,2008 Existing semiconductor photodetectors produce a steady current or voltage output in response to incident light that depends on the intensity of the light beam In contrast biological vision systems produce a stream of pulses with pulse rate representing the amount of incident light power The goal of this thesis is to explore the use of a four layer PNPN semiconductor structure as an optical detector that produces pulses instead of steady current or voltage output The first task of this thesis is to show that the pulse interval distribution is dependent on the intensity of the incident light beam and that the distribution of pulse intervals is described by a renewal process statistical model The second task of this thesis is to use the unique characteristics of the pulse generating circuit along with a neural network to construct a 2D sensor array capable of recognizing visual patterns and thus modeling to some extent the human visual cortex *International aerospace abstracts* ,1993 **Metals**

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Table of Contents Optical Detection Using Four Layer Semiconductor Structures

1. Understanding the eBook Optical Detection Using Four Layer Semiconductor Structures
 - The Rise of Digital Reading Optical Detection Using Four Layer Semiconductor Structures
 - Advantages of eBooks Over Traditional Books
2. Identifying Optical Detection Using Four Layer Semiconductor Structures
 - 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 Optical Detection Using Four Layer Semiconductor Structures
 - User-Friendly Interface
4. Exploring eBook Recommendations from Optical Detection Using Four Layer Semiconductor Structures
 - Personalized Recommendations
 - Optical Detection Using Four Layer Semiconductor Structures User Reviews and Ratings

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