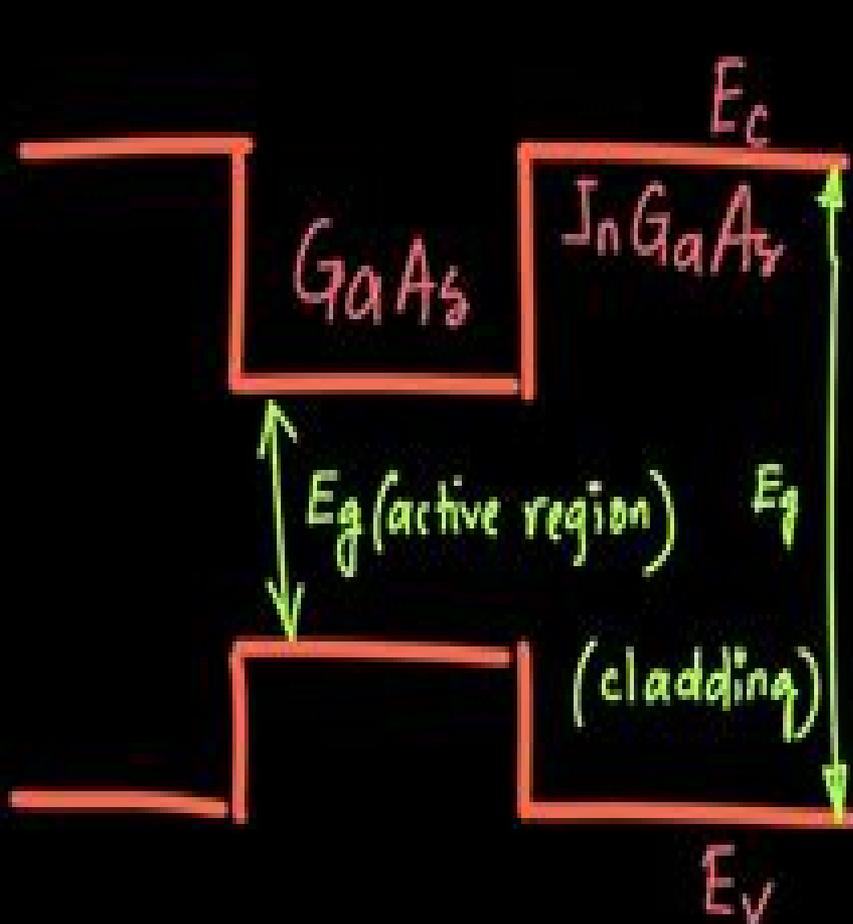


Introduction to Optoelectronics and Photonics



LEDs

Modulators

LASER

Photodetectors

Optoelectronics An Introduction

Shasha Hu



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Optoelectronics Yang Xu,Khurram Shehzad,Srikrishna Chanakya Bodepudi,Ali Imran,Bin Yu,2023-01-18 Graphene for Post Moore Silicon Optoelectronics Provides timely coverage of an important research area that is highly relevant to advanced detection and control technology Projecting device performance beyond the scaling limits of Moore s law requires technologies based on novel materials and device architecture Due to its excellent electronic thermal and optical properties graphene has emerged as a scalable low cost material with enormous integration possibilities for numerous optoelectronic applications Graphene for Post Moore Silicon Optoelectronics presents an up to date overview of the fundamentals applications challenges and opportunities of integrating graphene and other 2D materials with silicon Si technologies With an emphasis on graphene silicon Gr Si integrated devices in optoelectronics this valuable resource also addresses emerging applications such as optoelectronic synaptic devices optical modulators and infrared image sensors The book opens with an introduction to graphene for silicon optoelectronics followed by chapters describing the growth transfer and physics of graphene silicon junctions Subsequent chapters each focus on a particular Gr Si application including high performance photodetectors solar energy harvesting devices and hybrid waveguide devices The book concludes by offering perspectives on the future challenges and prospects of Gr Si optoelectronics including the emergence of wafer scale systems and neuromorphic optoelectronics Illustrates the benefits of graphene based electronics and hybrid device architectures that incorporate existing Si technology Covers all essential aspects of Gr Si devices including material synthesis device fabrication system integration and related physics Summarizes current progress and future challenges of wafer scale 2D Si integrated optoelectronic devices Explores a wide range of Gr Si devices such as synaptic phototransistors hybrid waveguide modulators

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Advancements in Optoelectronics Dr. M. Irshad Ahamed ,Dr. N. Prathap ,Dr. A. Karthikeyan,Mrs. H. Umamaheswari,2025-03-10

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