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## GE/SIGE QUANTUM WELL DEVICES FOR SILICON PHOTONICS



Papichaya Chaisakul  
Ge/SiGe quantum well  
devices for Silicon Photonics  
Optical modulator, Photodetector, and light emitter



LAP Lambert Academic Publishing Dez 2017, 2017. Taschenbuch. Condition: Neu. Neuware - This book is devoted to studying electro-optic properties of Germanium/Silicon-Germanium (Ge/SiGe) multiple quantum wells (MQWs) for light modulation, detection, and emission on Si platform. It reports the first development of high speed, low energy Ge/SiGe electro-absorption modulator in a waveguide configuration based on the quantum-confined Stark effect (QCSE), demonstrates the first Ge/SiGe photodiode with high speed performance compatible with 40 Gb/s data transmission, and realizes the first Ge/SiGe...

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- Authored by Papichaya Chaisakul
- Released at 2017



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