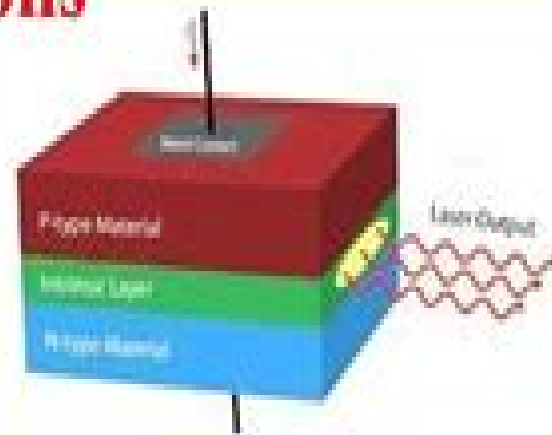


Semiconductor Laser (Injection Laser)



Dr. Akbar Ali
Ph.D., CSIR
NET-JRF, Gate

- ❖ Construction
- ❖ Working Principle
- ❖ Applications



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Semiconductor Injection Lasers

Nazanin Hoghooghi



Semiconductor Injection Lasers:

Semiconductor Injection Lasers Jerome K. Butler, 1980 Advances In Semiconductor Lasers And Applications To Optoelectronics (Ijhses Vol. 9 No. 4) Mitra Dutta, Michael A Stroschio, 2000-06-21 Foreword by Charles H Townes This volume includes highlights of the theories underlying the essential phenomena occurring in novel semiconductor lasers as well as the principles of operation of selected heterostructure lasers To understand scattering processes in heterostructure lasers and related optoelectronic devices it is essential to consider the role of dimensional confinement of charge carriers as well as acoustical and optical phonons in quantum structures Indeed it is important to consider the confinement of both phonons and carriers in the design and modeling of novel semiconductor lasers such as the tunnel injection laser quantum well intersubband lasers and quantum dot lasers The full exploitation of dimensional confinement leads to the exciting new capability of scattering time engineering in novel semiconductor lasers As a result of continuing advances in techniques for growing quantum heterostructures recent developments are likely to be followed in coming years by many more advances in semiconductor lasers and optoelectronics As our understanding of these devices and the ability to fabricate them grow so does our need for more sophisticated theories and simulation methods bridging the gap between quantum and classical transport *Semiconductor injection lasers* ,1982 *Characteristics of Semiconductor Injection Lasers* A. Kar, University of Wales. Institute of Science and Technology, 1983 **Lightwave Communications Technology** ,1985 **Lightwave Communications Technology: Semiconductor injection lasers, I-II** ,1985 Semiconductor Lasers Junji Ohtsubo, 2006 This monograph describes fascinating recent progress in the field of chaos stability and instability of semiconductor lasers Applications and future prospects are discussed in detail The book emphasizes the various dynamics induced in semiconductor lasers by optical and electronic feedback optical injection and injection current modulation Recent results of both theoretical and experimental investigations are presented Demonstrating applications of semiconductor laser chaos control and noise Semiconductor Lasers describes suppression and chaotic secure communications For those who are interested in optics but not familiar with nonlinear systems a brief introduction to chaos analysis is presented *Ultra-high Frequency Dynamics of Semiconductor Injection Lasers* Kam-Yin Lau, California Institute of Technology. Division of Engineering and Applied Science, 1981 *Semiconductor Injection Lasers and Their Applications* ,1972 **Phase Stability of Injection-locked Beam of Semiconductor Lasers** ,1992 Modeling of Semiconductor Injection Lasers Alfredo R. Linz, 1984 **Injection-locked Semiconductor Lasers for Realization of Novel RF Photonics Components** Nazanin Hoghooghi, 2012 This dissertation details the work has been done on a novel resonant cavity linear interferometric modulator and a direct phase detector with channel filtering capability using injection locked semiconductor lasers for applications in RF photonics First examples of optical systems whose performance can be greatly enhanced by using a linear intensity modulator are presented and existing linearized modulator designs are reviewed The novel linear interferometric optical

intensity modulator based on an injection locked laser as an arcsine phase modulator is introduced and followed by numerical simulations of the phase and amplitude response of an injection locked semiconductor laser The numerical model is then extended to study the effects of the injection ratio nonlinear cavity response depth of phase and amplitude modulation on the spur free dynamic range of a semiconductor resonant cavity linear modulator Experimental results of the performance of the linear modulator implemented with a multi mode Fabry Perot semiconductor laser as the resonant cavity are shown and compared with the theoretical model The modulator performance using a vertical cavity surface emitting laser as the resonant cavity is investigated as well Very low V subscript pi in the order of 1 mV multi gigahertz bandwidth 10 dB bandwidth of 5 GHz and a spur free dynamic range of 120 dB Hz superscript 2 3 were measured directly after the modulator The performance of the modulator in an analog link is experimentally investigated and the results show no degradation of the modulator linearity after a 1 km of SMF The focus of the work then shifts to applications of an injection locked semiconductor laser as a direct phase detector and channel filter This phase detection technique does not require a local oscillator Experimental results showing the detection and channel filtering capability of an injection locked semiconductor diode laser in a three channel system are shown The detected electrical signal has a signal to noise ratio better than 60 dB Hz In chapter 4 the phase noise added by an injection locked vertical cavity surface emitting laser is studied using a self heterodyne technique The results show the dependency of the added phase noise on the injection ratio and detuning frequency The final chapter outlines the future works on the linear interferometric intensity modulator including integration of the modulator on a semiconductor chip and the design of the modulator for input pulsed light

Semiconductor Lasers Alexei Baranov, Eric Tournié, 2013-04-23 Semiconductor lasers have important applications in numerous fields including engineering biology chemistry and medicine They form the backbone of the optical telecommunications infrastructure supporting the internet and are used in information storage devices bar code scanners laser printers and many other everyday products Semiconductor lasers Fundamentals and applications is a comprehensive review of this vital technology Part one introduces the fundamentals of semiconductor lasers beginning with key principles before going on to discuss photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Part two then reviews applications of visible and near infrared emitting lasers Nonpolar and semipolar GaN based lasers advanced self assembled InAs quantum dot lasers and vertical cavity surface emitting lasers are all considered in addition to semiconductor disk and hybrid silicon lasers Finally applications of mid and far infrared emitting lasers are the focus of part three Topics covered include GaSb based type I quantum well diode lasers interband cascade and terahertz quantum cascade lasers whispering gallery mode lasers and tunable mid infrared laser absorption spectroscopy With its distinguished editors and international team of expert contributors Semiconductor lasers is a valuable guide for all those involved in the design operation and application of these important lasers including laser and telecommunications engineers scientists working in

biology and chemistry medical practitioners and academics working in this field Provides a comprehensive review of semiconductor lasers and their applications in engineering biology chemistry and medicine Discusses photonic crystal lasers high power semiconductor lasers and laser beams and the use of semiconductor lasers in ultrafast pulse generation Reviews applications of visible and near infrared emitting lasers and mid and far infrared emitting lasers *Special Issue on Semiconductor Injection Lasers* James E. A. Whiteaway,1979 *A Pulsed Semiconductor Injection Laser System* Guy Walter Haynes,1966 **Dynamics of Semiconductor Lasers Under External Optical Injection** ,1997 Injection of an external optical signal into the oscillating mode of a semiconductor laser can modify the coupling between the circulating optical field and the carrier density gain medium The external optical signal modifies both the gain and the refractive index of the semiconductor gain medium by changing the free carrier density Depending on the strength of the optical injection and the frequency offset between the injected signal and the free running oscillation frequency this can lead to modulated output including multiwave mixing unstable dynamics and deterministic chaos or to significantly improved modulation and noise characteristics relative to the free running case Experimental investigations were coupled with numerical and analytical modeling to investigate the modified output in a commercially available laser diode and a vertical cavity surface emitting laser VCSEL The modeling used a conventional coupled equation model which we found identifies the key phenomena that we observe in our data [SILA 82](#) Institute of Electrical and Electronics Engineers, **Lasers and Masers** United States. National Aeronautics and Space Administration. Scientific and Technical Information Division,1965 **High-speed Modulation of Optical Injection-locked Semiconductor Lasers** Erwin K. Lau,2006 **Study of the Noise and Band Properties in Semiconductor Injection Lasers** Fikry Ramzy El Sonbaty,1972

Unveiling the Power of Verbal Art: An Emotional Sojourn through **Semiconductor Injection Lasers**

In some sort of inundated with displays and the cacophony of quick transmission, the profound energy and emotional resonance of verbal beauty frequently diminish in to obscurity, eclipsed by the regular onslaught of noise and distractions. However, set within the musical pages of **Semiconductor Injection Lasers**, a interesting function of fictional beauty that pulses with fresh thoughts, lies an remarkable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that exciting opus books viewers on a mental odyssey, delicately exposing the latent possible and profound impact stuck within the delicate web of language. Within the heart-wrenching expanse of this evocative analysis, we will embark upon an introspective exploration of the book is central themes, dissect its captivating writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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