# Intelligent Delay Comparison of DFB Distributed Feedback Lasers

We study experimentally and theoretically a dual-polarization fiber laser submitted to time-delayed frequency-shifted optical feedback.

In article number 2300549, Kei May Lau and colleagues present efficient and in-plane III-V distributed feedback (DFB) lasers selectively grown on ...

The simple design of fibre lasers with reflectors spread in space along light propagation direction is represented by the so-called distributed feedback (DFB) and distributed Bragg reflector (DBR) lasers.

Therefore, a monolithically integrated laser with a distributed Bragg reflector (DBR) is designed. This proposed chaotic laser consists of a distributed feedback (DFB) laser section, a ...

In article number 2300549, Kei May Lau and colleagues present efficient and in-plane III-V distributed feedback (DFB) lasers selectively grown on (001) silicon-on-insulator (SOI) wafers.

We have given an exact derivation for the changes in threshold gain, emission wavelength, and linewidth of a DFB laser due to the presence of weak external optical feedback.

The developed technologies form an advanced platform for Er3+-doped fiber DFB lasers operating around 1.55 µm with excellent output characteristics and unique practical features, in ...

A Distributed-feedback (DFB) laser is a semiconductor source of coherent light, whose active region includes periodic changes in the effective refractive index along the cavity.

Abstract: Hybrid III-V/SOI DFB lasers subjected to external optical feedback is analyzed. Its impact on optical spectrum, eye diagram and bit error rate (BER) is discussed.

A distributed-feedback laser (DFB) is a type of laser diode, quantum-cascade laser or optical-fiber laser where the active region of the device contains a periodically structured element or diffraction grating.

In this paper, the nonlinear dynamic state generated by directly modulated distributed feedback semiconductor laser (DM-DFBL) self-delayed feedback with an optoelectronic oscillation ...

Using these parameters, we simulate the performance of the DPPM-DFB laser and compare it to that of the PPM-DFB laser and the conventional DML, all of which have the same structure except for the ...

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