



# Distributed Feedback Laser Diodes: Principles and Physical Modelling

*Dr. H. Ghafouri-Shiraz, B. S. K. Lo*

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Distributed Feedback Laser Diodes Principles and Physical Modelling H. Ghafouri-Shiraz B. S. K. Lo University of Birmingham, UK Advances in optical fibre-based communications systems have played a crucial role in the development of the information highway. By offering a single mode oscillation and narrow spectral output, distributed feedback (DFB) semiconductor laser diodes offer an excellent optical light source for fibre-based communication systems. This comprehensive text focuses on the basic working principles of DFB laser diodes and details the development of a new technique for enhanced system performance.

- Considers the optical waveguiding characteristics and properties of semiconductor materials and the physics of DFB semiconductor lasers.
- Presents a powerful modelling technique based on the transfer matrix method which can be used to improve the design of laser diodes, optical filters and amplifiers.
- Examines the effect of the various corrugation shapes on the coupling coefficients and lasing characteristics of DFB laser diodes.
- Technical advice to improve immunity against the spatial hole burning effect.
- Extensive referencing throughout and a comprehensive glossary of symbols and abbreviations.

Distributed Feedback Laser Diodes is an indispensable text for senior students of electrical and electronic engineering and physics, and will consolidate their knowledge in this rapidly growing field. As a technical guide for the structural design of DFB laser diodes, it will serve as an invaluable reference for researchers in optoelectronics, and semiconductor and device physics.

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