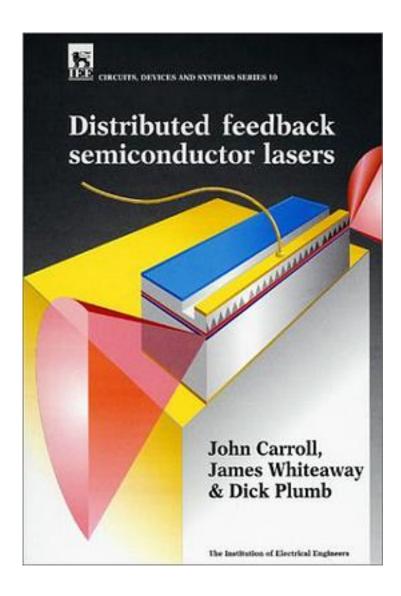
Distributed Feedback Semiconductor Lasers (IEE Circuits, Devices & Systems Series, No 10)



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As laser diodes continue to increase in use and versatility so their design has become more sophisticated, requiring extensive physical and mathematical modelling. Concentrating on presenting a thorough analysis of DFB lasers from a level suitable for research students, the book emphasises understanding of fundamental principles and gives extensive coverage of computer aided modelling techniques. It is supported by a suite of Matlab programs.

作者介绍:

目录: 1. The semiconductor-diode laser

2. Gain, loss and spontaneous emission

3. Principles of modelling guided waves

4. Optical energy exchange in guides

5. Basic principles of lasers with distributed feedback

6. More advanced distributed feedback laser design

7. Numerical modelling for DFB lasers

8. Future devices, modelling and systems analysis Appendix 1: Maxwell, plane waves and reflections Appendix 2: Algorithms for the multilayer slab guide

Appendix 3: Group refractive index of laser waveguides Appendix 4: Small-signal analysis of single-mode laser

Appendix 5: Electromagnetic energy exchange

Appendix 6: Pauli equations

Appendix 7: Kramers-Krönig relationships Appendix 8: Relative-intensity noise (RIN)

Appendix 9: Thermal, quantum and numerical noise

Appendix 10: Laser packaging

Appendix 11: Tables of device parameters and simulated performance for DFB laser structures

Appendix 12: About MATLAB programs

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