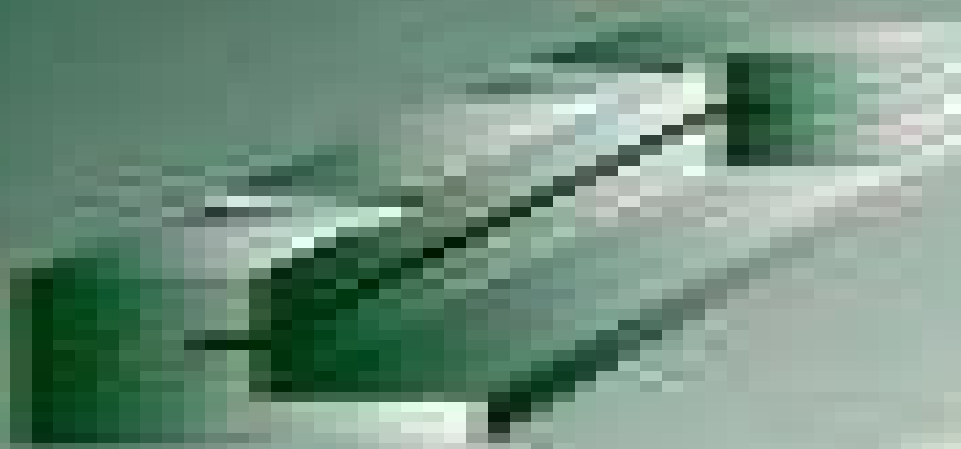


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Distributed Feedback Laser Diodes Principles And Physical Modelling

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Fundamentals of Laser Diode Amplifiers Dr. H. Ghafouri-Shiraz, 1996-05-03 Optical communications technology is growing increasingly in importance with a rapid pace of development Innovative optical devices have emerged from the integration of semiconductor laser diodes with optical waveguide technology This well researched text traces the evolution of semiconductor laser amplifiers SLAs from these technologies Focusing on the principle applications of SLAs the author illustrates the growing importance of these functional components in the future of optical communications systems Featuring The major advantages of the basic static design of laser diode amplifiers Systematic analysis of signal and noise properties including gain bandwidth and saturation power The implications of SLAs on optical fibre system performance A new technique for analysing SLAs using an equivalent circuit model Extensive end of chapter references Fundamentals of Laser Diode Amplifiers will provide engineering students with a basic understanding of optical amplification through the analysis of the performance characteristics of SLAs in theory and in application Practising device engineers wishing to consolidate their knowledge in lightwave technology will also find this work an invaluable reference

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