
Semiconductor Optical Amplifiers

chapter 9 semiconductor optical amplifiers - chapter 9 semiconductor optical amplifiers 9.1 basic structure of semiconductor optical amplifiers (soas) 9.1.1 introduction: semiconductor optical amplifiers (soas), as the name suggests, are used to amplify optical signals. a typical structure of a ingaasp/inp soa is shown in the figure below. the basic structure consists **section 5: optical amplifiers - university of arizona** - semiconductor optical amplifiers (soas) fiber raman and brillouin amplifiers rare earth doped fiber amplifiers (erbium - edfa 1500 nm, praseodymium - pdfa 1300 nm) the most practical optical amplifiers to date include the soa and edfa types. new pumping methods and materials are also improving the performance of raman amplifiers. 3 **semiconductor optical amplifiers (soas)** - semiconductor optical amplifiers (soas, pp. 232-243 in agrawal) • amplifier design -requirements on the mirror reflectivities • amplifier characteristics -saturation power -gain clamping -noise figure -polarization sensitivity -pattern effect • pulse amplification (next lecture) **semiconductor optical amplifiers - concordia university** - semiconductor optical amplifiers there are two types of soas: --- fabry-perot amplifiers (fpa) when the light enters fpa it gets amplified as it reflects back and forth between the mirrors until emitted at a higher intensity. it is sensitive to temperature and input optical frequency.---non-resonant traveling-wave amplifiers (twa) **types of optical amplifiers - opti500an-erc** - • raman amplifiers - used in conjunction with edfa's • semiconductor optical amplifiers - small package - potential use for low-cost applications - potential use for optical switching opti 500 c, spring 2011, lecture 23, introduction to optical amplifiers 1 types of optical amplifiers **semiconductor optical amplifiers (soas) as pre-amplifiers** - applications note no 0002 soas as pre-amplifiers page 2 semiconductor optical amplifiers linear operating regime: in amplification, the linear region is the preferred operating regime since an exact, amplified replica of the input is required.

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