Recent progress of erbium-doped fiber amplifiers and their components
Model results of Er-Yb double clad fiber amplifier
A novel fabrication technology of a polymer optical waveguide and its application

Low-cost electro-optical package for use with PCB-embedded waveguides
Simple evaluation method of multimode polymer optical waveguides for next generation FTTH application
Novel high nonlinear bismuth-based photonic crystal fiber
80Gb/s all-optical XNOR using a dual four wave mixing scheme in highly nonlinear fibers

Modeling the brain with laser diodes
High-speed versatile optical modulator based on integrated LiNbO[subscript 3] waveguides
Efficient modeling of nonlinear wave propagation and radiation dynamics in nano-photonic systems
Simple and cost effective wavelength setting and monitoring method using software-based wavelength estimation for WDM pluggable optical transceiver
All-optical logic NOR gate at 40 Gb/s using SOA-based Mach-Zehnder interferometer

Broadband detector for optical communication
Laser oscillation with polysilane waveguide tunable external resonator
Stimulated emission and emission efficiency enhancement in nanopatterned silicon
Semiconducting silicide photonic devices
Si wire waveguide devices
Monolithically integrated III-Sb diode lasers on Si using interfacial misfit arrays

Light emitting diodes based on GaPN/Si for optoelectronic integrated circuits
Photonic and related device applications of nano-crystalline silicon
Silicon-based photonic network devices and materials
Integrated AlGaInAs-silicon evanescent racetrack laser and photodetector
Silicon photonic devices with Ge quantum dots as light sources
A high-capacity storage device for communications and multimedia systems
Static and dynamic reflection coefficients of the wall surfaces and their influence on optical power distribution in fibreless diffused networks
Reduction of self phase modulation in fiber for WDM system
Frequency upconversion analysis for Tb[subscript 3+] - Yb[subscript 3+] co-doped system in glass materials
High speed optical signal analyses for micro-ring resonator filter based on FDTD joined signal processing method
Stimulated Raman and Brillouin scattering in tellurite glasses for slow light generation

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.