Uncooled lasers for metropolitan networks
Recent progress in long wavelength quantum cascade lasers
A ring cavity Raman silicon laser
Single-chip 40G/s widely-tunable transceivers with integrated SG-DBR laser, QW EAM, UTC photodiode, and low confinement SOA
All-optical 10-Gbps packet switching by DBR-MMI-BLD all-optical flip-flop
Low driving-voltage 40-Gbit/s electroabsorption modulator integrated DFB laser module with low chirp characteristics
High-power (40mW) full C-band wavelength tunable DFB laser array integrated with funnel combiner
1.55-μm -wavelength AlGaInAs multiple-quantum-well semi-insulating buried-heterostructure lasers
First monolithic integration of a waveguide optical isolator with a distributed feedback laser diode
Over 100-mW output power operation of VOA integrated full C-band external cavity wavelength tunable laser utilizing high-refractive-index gap mirror
Widely tunable laser using microring resonators
New double-Bragg DBR laser for C-band tuning with only one Bragg current control
Widely tunable twin-guide laser diodes with large continuous tuning range
Mode-hop-free and electrically wavelength-tunable laser array with 39.5 nm tuning range using tunable distributed amplification DFB structure
Monolithically integrated, sampled grating DBR laser transmitter with an asymmetric quantum well electroabsorption modulator
Suppression of thermal wavelength drift in SSG-DBR laser with thermal drift compensation structure
25W 915nm lasers with window structure fabricated by impurity free vacancy disordering (IFVD)
9 W output power from a 808 nm tapered diode laser in pulse mode operation with nearly diffraction-limited beam quality
3 W - broad area lasers and 12 W - bars with conversion efficiencies up to 40% at 650 nm
High power, very low noise, C.W. operation of 1.32[μm] quantum-dot fabry-perot laser diodes
Gain without inversion : an approach for THz quantum cascade laser?
Analysis of the major loss processes in mid-infrared type-II fiWfi diode lasers
Compact high peak power MOPA assembly based on grating coupled laser diodes
High-power and broad-band quantum dot SLDs for optical coherence tomography
High-performance small-radius half-racetrack-ring-resonator InAlGaAs quantum well laser diodes fabricated via non-selective wet oxidation
Coulomb damped relaxation oscillations in semiconductor quantum dot lasers
Uniform and high-power characteristics of AlGaInP-based laser diodes by 4-inch wafer process technology for DVD-R/RW/RAM
Tunable optical delay using quantum dot VCSEL by polarization control
GaInNAs DFB laser with buried GaAs grating
1-step OMVPE grown strongly index-coupled membrane DFB laser with surface corrugation grating structure
InP-based quantum cascade distributed feedback lasers with deeply etched lateral gratings  p. 61
Efficient unidirectional wavelength-scale photonic crystal light emitters  p. 63
Investigations of the linewidth of intersubband quantum cascade lasers  p. 65
Polarization-independent, all-optical clock extraction in a mode-locked laser diode with polarization-diversity configuration  p. 67
Characteristics of 1.3-[mu]m quantum dots laser with a high density and a high uniformity QD  p. 69
High-power single mode InGaAs sub-monolayer quantum-dot photonic-crystal VCSELs  p. 71
Electron density dynamics, frequency shift and secondary locking region in an optically injected DFB laser  p. 73
Maximising the gain and minimising the non-radiative recombination in 1.3[mu]m quantum dot lasers  p. 75
Beam-steering in photonic crystal vertical cavity surface emitting laser arrays  p. 77
Random population and localised recombination in quantum dot structures  p. 79
Screening of piezoelectric fields in InGaN quantum well laser structures  p. 81
Facet passivation of GaInAsP/InP laser diodes by aluminum ultrathin layer insertion  p. 83
Semi-cooled operation (TLD=50?C) of 10.7-Gbit/s 1.55-[mu]m electro-absorption modulator integrated DFB laser for 80 km transmission  p. 85
Lasing at 1.3 [mu]m from InAs quantum dots with GaInNAs embedding layers grown by metalorganic chemical vapor deposition  p. 87
Enhancement of optical gain in Sb-based MIR diode lasers  p. 89
High-temperature, low-threshold injectorless quantum-cascade lasers, emitting at > 6.8 [mu]m  p. 91
Thermoelectric cooled mid-IR interband cascade lasers  p. 93
High-brightness from an unstable resonator mid-IR semiconductor laser  p. 95
Photonic crystal quantum cascade lasers with improved threshold characteristics operating up to room temperature  p. 97
Monte Carlo simulation of AlGaAs/GaAs QCLs including both ? and X valley transport  p. 99
Metal nano-aperture VCSEL for near-field optics and polarization control  p. 101
Polarization control of VCSEL array by metal nanoholes at rectangular lattice utilizing surface plasmon resonance  p. 103
Polarization control of 1.2 [mu]m single-mode VCSELs using photonic crystal polarizer  p. 105
Novel surface emitting laser using high-contrast subwavelength grating  p. 107
High power ultraviolet VECSEL through intra-cavity frequency-doubling in BBO  p. 109
NEMS tunable VCSEL  p. 111
InP-based VCSELs with buried tunnel junction for optical communication and sensing in the 1.3-2.3 [mu]m wavelength range  p. 113
Small signal modulation of dual oxide cavity composite resonator vertical cavity lasers  p. 115
40 GHz bandwidth and 64 GHz resonance frequency in injection-locked 1.55 um VCSELs  p. 117
20 Gb/s 85 [degrees]C error free operation of VCSEL based on submonolayer deposition of quantum dots  p. 119
Tunable optical delay and nonlinear phase shift using 1.55 [μm] VCSEL p. 121
Single mode 1.28[μm] InGaAs VCSELs using an inverted surface relief p. 123
Modulation efficiency enhancement of 1.55-[μm] injection-locked VCSELs p. 125
Low thermal resistance, low current density, high-speed 980 and 850nm VCSELs p. 127
Short-cavity 980 nm DBR lasers with quantum well intermixed integrated high-speed EA modulators p. 129
A highly stable evanescently-coupled fiber semiconductor laser p. 131
Electrically injected InGaAsP microdisk lasers heterogeneously integrated on a Si-wafer p. 133
Simultaneous oscillation of two-colour discrete mode Fabry-Perot laser diodes using non-periodic index patterns p. 135
Wide tunable photonic crystals lasers p. 137
Fast spontaneous emission decay in photonic crystal point-shift nanolaser with ultimate-small modal volume p. 139
Diffraction limited single mode emission of photonic crystal distributed feedback lasers p. 141
Intrinsic limitations of p-doped and undoped 1.3 [μm] InAs/GaAs quantum dot lasers p. 143
Quantum dot based phase modulator at 1300 nm p. 145
Quantum dot modelocked and broad-band lasers for optical interconnect solutions p. 147
Nonlinear optical effects in InxGa(1-x)As quantum systems for saturable absorbers p. 149
Extremely increasing the mode-locking range of hybrid soliton pulse source p. 151
Active mode-locking of quantum dot Fabry-Perot laser diode p. 153
Auger recombination is NOT necessary to explain the temperature dependence of threshold in p-doped quantum dot lasers p. 155
1.3 [μm]m-band laser with a high characteristic temperature (T0=130 K) on an InGaAs ternary substrate grown by the traveling liquidus-zone method p. 157
2.1-[μm]m wavelength InGaAs MQW DFB lasers grown by MOVPE using Sb surfactant p. 159
High-performance GaInNAs-TQW edge emitting lasers p. 161
InGaNAs quantum dot lasers at 1.36 [μm]m p. 163
High-index-contrast oxide-confined GaAsP/InGaAsN multi-quantum-well ridge waveguide lasers p. 165
10 Gbps modulation of 1.3 [μm]m GaInNAs lasers up to 110[degrees] C p. 167
Analysis of very low threshold current density GaInNAs laser at low temperature p. 169
Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.