

## Bibliography

- [1] N. Satyan, A. Vasilyev, G. Rakuljic, V. Leyva, and A. Yariv, “Precise control of broadband frequency chirps using optoelectronic feedback,” *Opt. Express*, vol. 17, no. 18, pp. 15991–15999, 2009.
- [2] K. Iiyama, L.-T. Wang, and K. Hayashi, “Linearizing optical frequency-sweep of a laser diode for fmcw reflectometry,” *Lightwave Technology, Journal of*, vol. 14, no. 2, pp. 173–178, 1996.
- [3] P. A. Roos, R. R. Reibel, T. Berg, B. Kaylor, Z. W. Barber, and W. R. Babitt, “Ultrabroadband optical chirp linearization for precision metrology applications,” *Opt. Lett.*, vol. 34, pp. 3692–3694, Dec 2009.
- [4] M. Young, T. Koch, U. Koren, D. Tennant, B. Miller, M. Chien, and K. Feder, “Wavelength uniformity in lambda;/4 shifted dfb laser array wdm transmitters,” *Electronics Letters*, vol. 31, no. 20, pp. 1750–1752, 1995.
- [5] A. Yariv, “Dynamic analysis of the semiconductor laser as a current-controlled oscillator in the optical phased-lock loop: applications,” *Opt. Lett.*, vol. 30, pp. 2191–2193, Sep 2005.
- [6] N. Satyan, *Optoelectronic control of the phase and frequency of semiconductor lasers*. PhD thesis, California Institute of Technology, 2011.
- [7] N. Satyan, W. Liang, and A. Yariv, “Coherence cloning using semiconductor laser optical phase-lock loops,” *Quantum Electronics, IEEE Journal of*, vol. 45, no. 7, pp. 755–761, 2009.

- [8] N. Satyan, W. Liang, A. Kewitsch, G. Rakuljic, and A. Yariv, "Coherent power combination of semiconductor lasers using optical phase-lock loops," *Selected Topics in Quantum Electronics, IEEE Journal of*, vol. 15, no. 2, pp. 240–247, 2009.
- [9] N. Satyan, A. Vasilyev, W. Liang, G. Rakuljic, and A. Yariv, "Sideband locking of a single-section semiconductor distributed-feedback laser in an optical phase-lock loop," *Opt. Lett.*, vol. 34, pp. 3256–3258, Nov 2009.
- [10] N. Satyan, A. Vasilyev, G. Rakuljic, J. O. White, and A. Yariv, "Phase-locking and coherent power combining of broadband linearly chirped optical waves," *Opt. Express*, vol. 20, pp. 25213–25227, Nov 2012.
- [11] N. Satyan, A. Vasilyev, G. Rakuljic, J. O. White, and A. Yariv, "Phase-locking and coherent power combining of linearly chirped optical waves," in *Conference on Lasers and Electro-Optics 2012*, p. CF2N.1, Optical Society of America, 2012.
- [12] A. Vasilyev, E. Petersen, N. Satyan, G. Rakuljic, A. Yariv, and J. O. White, "Coherent power combining of chirped-seed erbium-doped fiber amplifiers," *Photonics Technology Letters, IEEE*, Forthcoming 2013.
- [13] A. Vasilyev, N. Satyan, S. Xu, G. Rakuljic, and A. Yariv, "Multiple source frequency-modulated continuous-wave optical reflectometry: theory and experiment," *Appl. Opt.*, vol. 49, pp. 1932–1937, Apr 2010.
- [14] A. Vasilyev, N. Satyan, G. Rakuljic, and A. Yariv, "Terahertz chirp generation using frequency stitched vcsels for increased lidar resolution," in *Conference on Lasers and Electro-Optics 2012*, p. CF3C.1, Optical Society of America, 2012.
- [15] J. Sendowski, *On-chip integrated label-free optical biosensing system*. PhD thesis, California Institute of Technology, 2013.
- [16] A. McCarthy, R. J. Collins, N. J. Krichel, V. Fernández, A. M. Wallace, and G. S. Buller, "Long-range time-of-flight scanning sensor based on high-speed

- time-correlated single-photon counting," *Appl. Opt.*, vol. 48, pp. 6241–6251, Nov 2009.
- [17] A. Kirmani, A. Colaço, F. N. C. Wong, and V. K. Goyal, "Exploiting sparsity in time-of-flight range acquisition using a single time-resolved sensor," *Opt. Express*, vol. 19, pp. 21485–21507, Oct 2011.
- [18] A. Dieckmann, "FMCW-LIDAR with tunable twin-guide laser diode," *Electronics Letters*, vol. 30, pp. 308–309, Feb 1994.
- [19] K. W. Holman, D. G. Kocher, and S. Kaushik, "MIT/LL development of broadband linear frequency chirp for high resolution ladar," vol. 6572, p. 65720J, SPIE, 2007.
- [20] M. A. Choma, K. Hsu, and J. A. Izatt, "Swept source optical coherence tomography using an all-fiber 1300-nm ring laser source," *Journal of Biomedical Optics*, vol. 10, no. 4, p. 044009, 2005.
- [21] R. Motaghiannezam and S. Fraser, "In vivo human retinal and choroidal vasculature visualization using differential phase contrast swept source optical coherence tomography at 1060 nm," pp. 821304–7, 2012.
- [22] C. Ndiaye, T. Hara, and H. Ito, "Profilometry using a frequency-shifted feedback laser," in *Lasers and Electro-Optics, 2005. (CLEO). Conference on*, vol. 3, pp. 1757–1759 Vol. 3, May 2005.
- [23] T. Anna, C. Shakher, and D. S. Mehta, "Simultaneous tomography and topography of silicon integrated circuits using full-field swept-source optical coherence tomography," *Journal of Optics A: Pure and Applied Optics*, vol. 11, no. 4, p. 045501, 2009.
- [24] J. Kittler, A. Hilton, M. Hamouz, and J. Illingworth, "3D Assisted Face Recognition: A Survey of 3D Imaging, Modelling and Recognition Approaches," in *Computer Vision and Pattern Recognition - Workshops, 2005. CVPR Workshops. IEEE Computer Society Conference on*, pp. 114–114, June 2005.

- [25] S. K. Dubey, T. Anna, C. Shakher, and D. S. Mehta, “Fingerprint detection using full-field swept-source optical coherence tomography,” *Applied Physics Letters*, vol. 91, no. 18, p. 181106, 2007.
- [26] S. H. Yun, G. J. Tearney, B. J. Vakoc, M. Shishkov, W. Y. Oh, A. E. Desjardins, M. J. Suter, R. C. Chan, J. A. Evans, I.-K. Jang, N. S. Nishioka, J. F. de Boer, and B. E. Bouma, “Comprehensive volumetric optical microscopy *in vivo*,” *Nat Med*, vol. 12, pp. 1429–1433, Dec 2006.
- [27] “A third industrial revolution,” *The Economist*. Apr 21, 2012.
- [28] G. Bonnema, K. Cardinal, J. McNally, S. Williams, and J. Barton, “Assessment of blood vessel mimics with optical coherence tomography,” *Journal of biomedical optics*, vol. 12, no. 2, pp. 024018–024018, 2007.
- [29] P. Bagnaninchi, Y. Yang, N. Zghoul, N. Maffulli, R. Wang, and A. Haj, “Chitosan microchannel scaffolds for tendon tissue engineering characterized using optical coherence tomography,” *Tissue engineering*, vol. 13, no. 2, pp. 323–331, 2007.
- [30] Y. Yang, A. Dubois, X. Qin, J. Li, A. E. Haj, and R. K. Wang, “Investigation of optical coherence tomography as an imaging modality in tissue engineering,” *Physics in Medicine and Biology*, vol. 51, no. 7, p. 1649, 2006.
- [31] M. Rimann and U. Graf-Hausner, “Synthetic 3D multicellular systems for drug development,” *Current opinion in biotechnology*, 2012.
- [32] Y. Aoki, K. Tajima, and I. Mito, “Input power limits of single-mode optical fibers due to stimulated brillouin scattering in optical communication systems,” *Lightwave Technology, Journal of*, vol. 6, no. 5, pp. 710–719, May.
- [33] G. D. Goodno, S. J. McNaught, J. E. Rothenberg, T. S. McComb, P. A. Thielen, M. G. Wickham, and M. E. Weber, “Active phase and polarization locking of a 1.4 kw fiber amplifier,” *Opt. Lett.*, vol. 35, pp. 1542–1544, May 2010.

- [34] S. B. Weiss, M. Weber, and G. Goodno, “Group delay locking of broadband phased lasers,” in *Lasers, Sources, and Related Photonic Devices*, p. AM3A.5, Optical Society of America, 2012.
- [35] J. O. White, A. Vasilyev, J. P. Cahill, N. Satyan, O. Okusaga, G. Rakuljic, C. E. Mungan, and A. Yariv, “Suppression of stimulated brillouin scattering in optical fibers using a linearly chirped diode laser,” *Opt. Express*, vol. 20, pp. 15872–15881, Jul 2012.
- [36] C. Mungan, S. Rogers, N. Satyan, and J. White, “Time-dependent modeling of brillouin scattering in optical fibers excited by a chirped diode laser,” *Quantum Electronics, IEEE Journal of*, vol. 48, no. 12, pp. 1542–1546, Dec.
- [37] M.-C. Amann, T. Bosch, M. Lescure, R. Myllylä, and M. Rioux, “Laser ranging: a critical review of usual techniques for distance measurement,” *Optical Engineering*, vol. 40, no. 1, pp. 10–19, 2001.
- [38] S. Venkatesh and W. V. Sorin, “Phase noise considerations in coherent optical fmcw reflectometry,” *Lightwave Technology, Journal of*, vol. 11, no. 10, pp. 1694–1700, 1993.
- [39] I. Komarov and S. Smolskiy, *Fundamentals of short-range FM radar*. Artech House, 2003.
- [40] A. Yariv, *Quantum Electronics*. John Wiley, 1975.
- [41] M. Lax, “Classical noise. v. noise in self-sustained oscillators,” *Phys. Rev.*, vol. 160, pp. 290–307, Aug 1967.
- [42] C. Henry, “Theory of the linewidth of semiconductor lasers,” *Quantum Electronics, IEEE Journal of*, vol. 18, no. 2, pp. 259–264, 1982.
- [43] M. O’Mahony and I. Henning, “Semiconductor laser linewidth broadening due to 1/f carrier noise,” *Electronics Letters*, vol. 19, no. 23, pp. 1000–1001, 1983.

- [44] L. Cutler and C. Searle, "Some aspects of the theory and measurement of frequency fluctuations in frequency standards," *Proceedings of the IEEE*, vol. 54, no. 2, pp. 136–154, 1966.
- [45] A. Kersey, M. Marrone, A. Dandridge, and A. B. Tveten, "Optimization and stabilization of visibility in interferometric fiber-optic sensors using input-polarization control," *Lightwave Technology, Journal of*, vol. 6, no. 10, pp. 1599–1609, 1988.
- [46] L. Richter, H. Mandelberg, M. Kruger, and P. McGrath, "Linewidth determination from self-heterodyne measurements with subcoherence delay times," *Quantum Electronics, IEEE Journal of*, vol. 22, no. 11, pp. 2070–2074, 1986.
- [47] E. Strzelecki, D. Cohen, and L. Coldren, "Investigation of tunable single frequency diode lasers for sensor applications," *Lightwave Technology, Journal of*, vol. 6, pp. 1610–1618, Oct 1988.
- [48] S. H. Yun, C. Boudoux, G. J. Tearney, and B. E. Bouma, "High-speed wavelength-swept semiconductor laser with a polygon-scanner-based wavelength filter," *Opt. Lett.*, vol. 28, no. 20, pp. 1981–1983, 2003.
- [49] W. Y. Oh, S. H. Yun, G. J. Tearney, and B. E. Bouma, "115 khz tuning repetition rate ultrahigh-speed wavelength-swept semiconductor laser," *Opt. Lett.*, vol. 30, pp. 3159–3161, Dec 2005.
- [50] H. Lim, J. De Boer, B. Park, E. Lee, R. Yelin, and S. Yun, "Optical frequency domain imaging with a rapidly swept laser in the 815-870 nm range," *Opt. Express*, vol. 14, no. 13, pp. 5937–5944, 2006.
- [51] F. Gardner, *Phaselock Techniques*. Wiley, 2005.
- [52] S. Saito, O. Nilsson, and Y. Yamamoto, "Coherent fsk transmitter using a negative feedback stabilised semiconductor laser," *Electronics Letters*, vol. 20, no. 17, pp. 703–704, 1984.

- [53] P. Corrc, O. Girad, and J. De Faria, I.F., “On the thermal contribution to the fm response of dfb lasers: theory and experiment,” *Quantum Electronics, IEEE Journal of*, vol. 30, no. 11, pp. 2485–2490, 1994.
- [54] G. Pandian and S. Dilwali, “On the thermal fm response of a semiconductor laser diode,” *Photonics Technology Letters, IEEE*, vol. 4, no. 2, pp. 130–133, 1992.
- [55] A. Hangauer, J. Chen, R. Strzoda, and M.-C. Amann, “The frequency modulation response of vertical-cavity surface-emitting lasers: Experiment and theory,” *Selected Topics in Quantum Electronics, IEEE Journal of*, vol. 17, no. 6, pp. 1584–1593, 2011.
- [56] W. V. Sorin, K. W. Chang, G. A. Conrad, and P. R. Hernday, “Frequency domain analysis of an optical fm discriminator,” *Lightwave Technology, Journal of*, vol. 10, no. 6, pp. 787–793, 1992.
- [57] J. T. Ahn, H. K. Lee, K. H. Kim, M.-Y. Jeon, D. S. Lim, and E.-H. Lee, “A stabilised fibre-optic mach-zehnder interferometer filter using an independent stabilisation light source,” *Optics Communications*, vol. 157, no. 16, pp. 62–66, 1998.
- [58] Y. Kokubun, N. Funato, and M. Takizawa, “Athermal waveguides for temperature independent lightwave devices,” *Photonics Technology Letters, IEEE*, vol. 5, no. 11, pp. 1297–1300, 1993.
- [59] T. G. McRae, S. Ngo, D. A. Shaddock, M. T. L. Hsu, and M. B. Gray, “Frequency stabilization for space-based missions using optical fiber interferometry,” *Opt. Lett.*, vol. 38, pp. 278–280, Feb 2013.
- [60] B. Nagler, M. Peeters, J. Albert, G. Verschaffelt, K. Panajotov, H. Thienpont, I. Veretennicoff, J. Danckaert, S. Barbay, G. Giacomelli, *et al.*, “Polarization-mode hopping in single-mode vertical-cavity surface-emitting lasers: Theory

- and experiment," *PHYSICAL REVIEW-SERIES A-*, vol. 68, no. 1, pp. 013813–013813, 2003.
- [61] S. Li, X. Jin, X. Zhang, and Y. K. Zou, "Digitally controlled programmable high-speed variable optical attenuator," *Microwave and Optical Technology Letters*, vol. 48, no. 6, pp. 1019–1021, 2006.
- [62] J. Mork, A. Mecozzi, and G. Eisenstein, "The modulation response of a semiconductor laser amplifier," *Selected Topics in Quantum Electronics, IEEE Journal of*, vol. 5, no. 3, pp. 851–860, 1999.
- [63] M. K. K. Leung, A. Mariampillai, B. A. Standish, K. K. C. Lee, N. R. Munce, I. A. Vitkin, and V. X. D. Yang, "High-power wavelength-swept laser in littman telescope-less polygon filter and dual-amplifier configuration for multichannel optical coherence tomography," *Opt. Lett.*, vol. 34, pp. 2814–2816, Sep 2009.
- [64] R. Huber, M. Wojtkowski, and J. G. Fujimoto, "Fourier Domain Mode Locking (FDML): A new laser operating regime and applications for optical coherence tomography," *Opt. Express*, vol. 14, pp. 3225–3237, Apr 2006.
- [65] C. Chong, T. Suzuki, A. Morosawa, and T. Sakai, "Spectral narrowing effect by quasi-phase continuous tuning in high-speed wavelength-swept light source," *Opt. Express*, vol. 16, pp. 21105–21118, Dec 2008.
- [66] J. C. Marron and K. W. Gleichman, "Three-dimensional imaging using a tunable laser source," *Optical Engineering*, vol. 39, no. 1, pp. 47–51, 2000.
- [67] M. L. Simpson, C. A. Bennett, M. S. Emery, D. P. Hutchinson, G. H. Miller, R. K. Richards, and D. N. Sitter, "Coherent imaging with two-dimensional focal-plane arrays: design and applications.", *Applied Optics*, vol. 36, no. 27, pp. 6913–6920, 1997.
- [68] W. van der Mark and D. Gavrila, "Real-time dense stereo for intelligent vehicles," *Intelligent Transportation Systems, IEEE Transactions on*, vol. 7, pp. 38–50, march 2006.

- [69] R. Baraniuk, A. Davenport, Mark, F. Durate, Marco, and C. Hedge, eds., *An Introduction to Compressive Sensing*. Connexions, 2011.
- [70] S. Foix, G. Alenya, and C. Torras, “Lock-in Time-of-Flight (ToF) Cameras: A Survey,” *Sensors Journal, IEEE*, vol. 11, pp. 1917–1926, sept. 2011.
- [71] M. Young, E. Lebed, Y. Jian, P. J. Mackenzie, M. F. Beg, and M. V. Sarunic, “Real-time high-speed volumetric imaging using compressive sampling optical coherence tomography,” *Biomed. Opt. Express*, vol. 2, pp. 2690–2697, Sep 2011.
- [72] S. Boyd and L. Vandenberghe, *Convex optimization*. Cambridge, UK: Cambridge University Press, 2009.
- [73] M. Fornasier and H. Rauhut, “Compressive sensing,” in *Handbook of Mathematical Methods in Imaging* (O. Scherzer, ed.), pp. 187–228, Springer New York, 2011.
- [74] J. Simsarian, M. Larson, H. Garrett, H. Xu, and T. Strand, “Less than 5-ns wavelength switching with an SG-DBR laser,” *Photonics Technology Letters, IEEE*, vol. 18, pp. 565–567, 15, 2006.
- [75] J. Wesström, S. Hammerfeldt, J. Buus, R. Siljan, R. Laroy, and H. De Vries, “Design of a widely tunable modulated grating Y-branch laser using the additive Vernier effect for improved super-mode selection,” in *Proc. of 18th Int. Semiconductor Laser Conf.(ISLC), Garmisch, Germany*, 2002.
- [76] H. Rauhut, “Compressive Sensing and Structured Random Matrices,” in *Theoretical Foundations and Numerical Methods for Sparse Recovery* (M. Fornasier, ed.), vol. 9 of *Radon Series Comp. Appl. Math.*, pp. 1–92, deGruyter, 2010.
- [77] M. P. Minneman, J. Ensher, M. Crawford, and D. Derickson, “All semiconductor high-speed akinetic swept-source for OCT,” pp. 831116–831116–10, 2011.

- [78] H. K. Philipp, A. Scholtz, E. Bonek, and W. Leeb, “Costas loop experiments for a  $10.6 \mu\text{m}$  communications receiver,” *Communications, IEEE Transactions on*, vol. 31, no. 8, pp. 1000–1002, 1983.
- [79] L. G. Kazovsky, “Performance analysis and laser linewidth requirements for optical psk heterodyne communications systems,” *Lightwave Technology, Journal of*, vol. 4, no. 4, pp. 415–425, 1986.
- [80] J. Kahn, A. Gnauck, J. Veselka, S. Korotky, and B. L. Kasper, “4-gb/s psk homodyne transmission system using phase-locked semiconductor lasers,” *Photonics Technology Letters, IEEE*, vol. 2, no. 4, pp. 285–287, 1990.
- [81] F. Herzog, K. Kudielka, D. Erni, and W. Bächtold, “Optical phase locked loop for transparent inter-satellite communications,” *Opt. Express*, vol. 13, pp. 3816–3821, May 2005.
- [82] U. Gliese, T. Nielsen, M. Bruun, E. Lintz Christensen, K. Stubkjaer, S. Lindgren, and B. Broberg, “A wideband heterodyne optical phase-locked loop for generation of  $3 - 18 \text{ GHz}$  microwave carriers,” *Photonics Technology Letters, IEEE*, vol. 4, no. 8, pp. 936–938, 1992.
- [83] L. Johansson and A. Seeds, “Millimeter-wave modulated optical signal generation with high spectral purity and wide-locking bandwidth using a fiber-integrated optical injection phase-lock loop,” *Photonics Technology Letters, IEEE*, vol. 12, no. 6, pp. 690–692, 2000.
- [84] S. Takasaka, Y. Ozeki, S. Namiki, and M. Sakano, “External synchronization of 160-ghz optical beat signal by optical phase-locked loop technique,” *Photonics Technology Letters, IEEE*, vol. 18, no. 23, pp. 2457–2459, 2006.
- [85] T. von Lerber, S. Honkanen, A. Tervonen, H. Ludvigsen, and F. Kuppers, “Optical clock recovery methods: Review (invited),” *Optical Fiber Technology*, vol. 15, no. 4, pp. 363 – 372, 2009.

- [86] T. Fan, “Laser beam combining for high-power, high-radiance sources,” *Selected Topics in Quantum Electronics, IEEE Journal of*, vol. 11, no. 3, pp. 567–577, 2005.
- [87] L. Bartelt-Berger, U. Brauch, A. Giesen, H. Huegel, and H. Opower, “Power-scalable system of phase-locked single-mode diode lasers,” *Appl. Opt.*, vol. 38, pp. 5752–5760, Sep 1999.
- [88] S. J. Augst, T. Y. Fan, and A. Sanchez, “Coherent beam combining and phase noise measurements of ytterbium fiber amplifiers,” *Opt. Lett.*, vol. 29, pp. 474–476, Mar 2004.
- [89] C. X. Yu, J. E. Kansky, S. E. J. Shaw, D. Murphy, and C. Higgs, “Coherent beam combining of large number of pm fibres in 2-d fibre array,” *Electronics Letters*, vol. 42, no. 18, pp. 1024–1025, 2006.
- [90] S. J. Augst, J. K. Ranka, T. Y. Fan, and A. Sanchez, “Beam combining of ytterbium fiber amplifiers (invited),” *J. Opt. Soc. Am. B*, vol. 24, pp. 1707–1715, Aug 2007.
- [91] W. Liang, N. Satyan, A. Yariv, A. Kewitsch, G. Rakuljic, F. Aflatouni, H. Hashemi, and J. Ungar, “Coherent power combination of two master-oscillator-power-amplifier (MOPA) semiconductor lasers using optical phase lock loops,” *Opt. Express*, vol. 15, pp. 3201–3205, Mar 2007.
- [92] S. A. Diddams, D. J. Jones, J. Ye, S. T. Cundiff, J. L. Hall, J. K. Ranka, R. S. Windeler, R. Holzwarth, T. Udem, and T. W. Hänsch, “Direct link between microwave and optical frequencies with a 300 THz femtosecond laser comb,” *Phys. Rev. Lett.*, vol. 84, pp. 5102–5105, May 2000.
- [93] L.-S. Ma, Z. Bi, A. Bartels, L. Robertsson, M. Zucco, R. S. Windeler, G. Wilpers, C. Oates, L. Hollberg, and S. A. Diddams, “Optical frequency synthesis and comparison with uncertainty at the 10-19 level,” *Science*, vol. 303, no. 5665, pp. 1843–1845, 2004.

- [94] E. Seise, A. Klenke, S. Breitkopf, M. Plötner, J. Limpert, and A. Tünnermann, “Coherently combined fiber laser system delivering  $120 \mu\text{j}$  femtosecond pulses,” *Opt. Lett.*, vol. 36, pp. 439–441, Feb 2011.
- [95] K. Shiraki, M. Ohashi, and M. Tateda, “SBS threshold of a fiber with a brillouin frequency shift distribution,” *Lightwave Technology, Journal of*, vol. 14, no. 1, pp. 50–57, Jan.
- [96] J. Hansryd, F. Dross, M. Westlund, P. Andrekson, and S. Knudsen, “Increase of the SBS threshold in a short highly nonlinear fiber by applying a temperature distribution,” *Lightwave Technology, Journal of*, vol. 19, no. 11, pp. 1691–1697, 2001.
- [97] J. M. C. Boggio, J. D. Marconi, and H. L. Fragnito, “Experimental and numerical investigation of the SBS-threshold increase in an optical fiber by applying strain distributions,” *J. Lightwave Technol.*, vol. 23, p. 3808, Nov 2005.
- [98] G. D. Goodno, C.-C. Shih, and J. E. Rothenberg, “Perturbative analysis of coherent combining efficiency with mismatched lasers,” *Opt. Express*, vol. 18, pp. 25403–25414, Nov 2010.
- [99] G. D. Goodno, C.-C. Shih, and J. E. Rothenberg, “Perturbative analysis of coherent combining efficiency with mismatched lasers: errata,” *Opt. Express*, vol. 20, pp. 23587–23588, Oct 2012.
- [100] D. Botez, “High-power monolithic phase-locked arrays of antiguided semiconductor diode lasers,” *Optoelectronics, IEEE Proceedings J*, vol. 139, no. 1, pp. 14–23, 1992.
- [101] D. G. Youmans, “Phase locking of adjacent channel leaky waveguide co2 lasers,” *Applied Physics Letters*, vol. 44, no. 4, pp. 365–367, 1984.
- [102] J. R. Leger, M. L. Scott, and W. B. Veldkamp, “Coherent addition of Al-GaAs lasers using microlenses and diffractive coupling,” *Applied Physics Letters*, vol. 52, no. 21, pp. 1771–1773, 1988.

- [103] Y. Kono, M. Takeoka, K. Uto, A. Uchida, and F. Kannari, “A coherent all-solid-state laser array using the Talbot effect in a three-mirror cavity,” *Quantum Electronics, IEEE Journal of*, vol. 36, no. 5, pp. 607–614, 2000.
- [104] L. Langley, M. D. Elkin, C. Edge, M. Wale, U. Gliese, X. Huang, and A. Seeds, “Packaged semiconductor laser optical phase-locked loop (opll) for photonic generation, processing and transmission of microwave signals,” *Microwave Theory and Techniques, IEEE Transactions on*, vol. 47, no. 7, pp. 1257–1264, 1999.
- [105] C. D. Nabors, “Effects of phase errors on coherent emitter arrays,” *Appl. Opt.*, vol. 33, pp. 2284–2289, Apr 1994.
- [106] C. Santis, *High-coherence Hybrid Si/III-V Semiconductor Lasers*. PhD thesis, California Institute of Technology, 2013.
- [107] V. Jayaraman, G. Cole, M. Robertson, C. Burgner, D. John, A. Uddin, and A. Cable, “Rapidly swept, ultra-widely-tunable 1060 nm MEMS-VCSELs,” *Electronics letters*, vol. 48, no. 21, pp. 1331–1333, 2012.
- [108] H. A. Davani, C. Grasse, B. Kögel, C. Gierl, K. Zogal, T. Gründl, P. Westbergh, S. Jatta, G. Böhm, P. Meissner, *et al.*, “Widely electro thermal tunable bulk-micromachined MEMS-VCSEL operating around 850nm,” in *Conference on Lasers and Electro-Optics/Pacific Rim*, Optical Society of America, 2011.
- [109] F. Sohbatzadeh, S. Mirzanejhad, H. Aku, and S. Ashouri, “Chirped Gaussian laser beam parameters in paraxial approximation,” *Physics of Plasmas*, vol. 17, Aug 2010.