

Le Nguyen Binh
R&D PUBLICATIONS 2003-2008

Year	No.	AUTHORS	TITLE	DETAILS
BOOK				
2009	[1]	Le Nguyen Binh	Book: Optical Fiber Communications: Principles, Practices and MATLAB Simulink Models	CRC Press, Taylors and Francis Group, Expected publication May 2009 Contracted October 2008.
2009	[2]	Le Nguyen Binh , Ngo Quoc Nam,	Book: Ultra-short Pulse Fiber Lasers: Principles, Applications and Matlab models	CRC Press, Taylors and Francis Group, Florida, USA, Contracted 2008. Expected publication, November 2009.
2008	[3]	Le Nguyen Binh	Book: Digital Optical Communications	Publisher: CRC Press, Taylor and Francis Group, Florida USA, Nov 21, 2008. • ISBN-10: 1420082051 and • ISBN-13: 978-1420082050
2007	[4]	Le Nguyen Binh	Book: Photonic Signal Processing: Techniques and applications	Publisher: CRC Press – Taylors and Francis Group FL, USA – November 2007. ISBN – 10 0849337623 and ISBN-13 978-0849337628.
BOOK CHAPTERS				
2008	[5]	LN Binh , WJ Lai and N. Nguyen	Book Chapter: Nonlinear Mode-locked Fiber Lasers	Progress in Nonlinear Optics Research, Book Chapter, Editors Miyu Takahashi and Hina Gotô, Nova Science Publishers Inc, USA , 2008 (3 rd Quarter) https://www.novapublishers.com/catalog/product_info.php?products_id=7311 .
2008	[6]	L.N. Binh , N. Nguyen and QH Lam	Book Chapter: Mode-locked Fiber Lasers	Book Chapter, Accepted Proposed Chapter, Nova Science Publishers Inc, USA
JOURNAL ARTICLES				
SUBMITTED/REVISED JOURNAL PAPERS				
		Le Nguyen Binh and Nhan D Nguyen	GENERATION OF HIGH-ORDER MULTI-BOUND-SOLITONS AND PROPAGATION IN OPTICAL FIBERS	Optics Communications, submitted 19 Oct 2008, Manuscript Number: BE-0826
	[7]	Le Nguyen Binh	A wideband integrated optic tunable wavelength and selective packet filters in LiNbO3	Optics Communications, submitted 2/09/2008, Manuscript Number: BE-0759 Rejected
	[8]	Le Nguyen Binh	A Wideband Balanced Receiver with Noise Suppression for Coherent Optical Communications	Optical and Quantum Electronics, Paper submitted OQEL-S-08-00107, August 31, 2008
	[9]	L.N. Binh and D.N. Nguyen	Optical temporal imaging and repetition multiplication via quadratic phase modulation	Optics Communications, Submitted May 2008.

	[10]	LN Binh, K.K. Pang and ND.N Nguyen	Pulse Propagation through Quadratic Phase Guided Optical Media	Submitted to Microwave and Optical Technology Letters, August 15, 2008
	[11]	LN Binh and Tran Khai Hoan	Re-modulation for 100 G DQPSK Up-stream Transmission in Passive Optical Networks	Submitted to Microwave and Optical Technology Letters
	[12]	Ln Binh, Le Huu Binh and Vo Thanh Tu	Layered-Graph Traffic Routing in Ultra-high Speed Ethernet All-Optical DWDM Metro-Networks Under Constraints of Dispersion Effects	Submitted to International J. Network and System Science, October 2008
	[13]	LN Binh	Dual-Ring 16-Star QAM Direct and Coherent Detection in 100 Gb/s Optically Amplified Fiber Transmission: Simulation.	Submitted and revised to Optical and Quantum Electronics, Aug. 5, 2008
	[14]	LN Binh	Uncertainty Aspects of Coherent and Direct Detection of ASK and Continuous Phase FSK In Optical Fiber Transmission Under Maximum Likelihood Sequence Estimation	Optical Engineering, Manuscript No.080786, submitted 2008-10-04 19:03:32
	[15]	Le Nguyen Binh	Generation of Multi-level Amplitude-Differential Phase Shift Keying Modulation Formats Using Only One Dual-Drive Mach-Zehnder Interferometric Optical Modulator	Optical Engineering, submitted 2008-10-02 21:19:29, manuscript 080782.
PUBLISHED/ACCEPTED JOURNAL PAPERS				
2008	[16]	Le Nguyen Binh	Vestigial Side Band Modulation Optical Transmission: Performance and Some Aspects of Electronic Equalization.	Optical Engineering, Vol. 47, No. 11, Nov 2008
2008	[17]	Le Nguyen Binh	Vestigial Side Band Modulation-Format Optical Transmission: Effects of Optical Filtering and Electrical Equalization	Optics Communications 281 (2008) 4862–4869
2008	[18]	Le Nguyen Binh	Optical Transmission of Variable Pulse Width Alternating Phase DuoB Modulation: MATLAB Simulink Simulation and Comparison with Carrier Suppressed RZ ASK Experimental Transmission	Optical Engineering, Journal accepted for publication 28 April 2008, in press 26 June 2008.
2008	[19]	TL Huynh, LN Binh and Nhan Nguyen	Fast-Processing Statistical Methods for Measurement of BER in Optical Fiber Communications Systems	Optics Communications, 2008 Vol. 281, No.10 pp 2750-2754
2008	[20]	LN Binh and TL Huynh	Single and Dual-level minimum shift keying optical transmission systems	IEEE Journal of Lightwave Technology, revised version submitted, JLT-10286-2007, R2 revised submitted. Accepted 12 August 2008
2008	[21]	Le Nguyen Binh	Routing and Wavelength Assignment in GMPLS-based 10 Gb/s Ethernet Long Haul Optical Networks under Linear Dispersion Effects	International Journal of Communications, Network and System Sciences (IJCNS) , Vol. 1, June 2008, pp. 154-167.
2008	[22]	Le Nguyen Binh	Multi-amplitude minimum shift keying modulation formats for optical communications	Optics Communications, Vol.281,No.17, 1 September 2008, Pages 4245-4253, 2008.
2008	[23]	LN Binh and TL Huynh, KK Pang and Thiru Sivahumara	"MLSE Equalizers for Frequency Discrimination Receiver of MSK Optical Transmission Systems"	IEEE J Lightwave Technology, accepted Jan 2008, Vol.26, No. 12, June15, 2008.
2008	[24]	LN Binh and TL Huynh, KK	Direct Detection Frequency Discrimination Optical Receiver for Minimum Shift Keying	IEEE J. Lightwave Technology, vol. 26, No. 12,

		Pang	Format Transmission	June 15, 2008 , pp. 1586-1595.
2008	[25]	Le Nguyen Binh and Nhan Nguyen	Generation of Bound-Solitons in Actively Phase Modulation Mode-Locked Fiber Ring Resonators	Optics Communications Volume 281, Issue 8, 15 April 2008, Pages 2012-2022
2007	[26]	Nam Quoc Ngo, and Le Nguyen Binh	New approach for the design of an optical square pulse generator	Applied Optics , Vol. 46, No. 17, 10 June 2007, pp. 3546-3560
2007	[27]	L.N. Binh , T.L. Huynh,	Linear and nonlinear distortion effects in direct detection 40 Gb/s MSK modulation formats multi-span optically amplified transmission	Optics Communications , Vol. 273, 2007, pp. 352–361.
2007	[28]	Huy Quoc Lam, P. Shum, Le Nguyen Binh , Y. D. Gong, and Ming Tang	Dual Orthogonal Polarization States in an Active Mode-Locked Birefringent Fiber Ring Laser	IEEE Photonics Tech. Letters , Vol. 19, No. 9, May 1, 2007, pp.635-638.
2007	[29]	L.N. Binh	Electronic and Photonic Processing in Advanced Photonic Long-Haul Transmission	Radio Science Bulletin , vol. 321, June 2007, pp. 37-53.
2007	[30]	Nam Quoc Ngo, Rui Tao Zheng, J. H. Ng, S. C. Tjin, and L. N. Binh	Optimization of Fiber Bragg Gratings Using a Hybrid Optimization Algorithm	IEEE Journal of Lightwave Technology , Vol. 25, No. 3, March 2007, pp. 700-802.
2007	[31]	Huy Quoc Lam, P. Shum, Le Nguyen Binh , Y. D. Gong, and Ming Tang,	Series Analysis of Active Mode-Locked Laser under the Influence of ASE Noise	IEEE Journal of Lightwave Technology , vol. 26, No 12, June 2008.
2006	[32]	N.Q Ngo and L.N. Binh	Synthesis of tunable optical waveguide filters using digital signal processing technique	IEEE Journal of Lightwave Technology , Vol. 24, No.1, pp. 563-572, June 2006.
2006	[33]	Huy Quoc Lam, P. Shum, Le Nguyen Binh , and Y. D. Gong,	Polarization-Dependent Locking in SOA Harmonic Mode-Locked Fiber Laser	IEEE Photonics Tech. Letters , Vol. 18, No. 22, Nov. 15, 2006, pp. 2404-2407.
2006	[34]	R. T. Zheng, N. Q. Ngo, L. N. Binh , S. C. Tjin, and P. Shum	An Optimization Technique for Simple Reconstruction of the Index Modulation Profile of Symmetric Fiber Bragg Gratings from their Reflective Spectrum	Optical Engineering , vol. 45, No.1, June 2006.
2006	[35]	N. Q. Ngo, S. Y. Li, L. N. Binh , and S. C. Tjin	A Phase-Shifted Linearly Chirped Fiber Bragg Grating with Tunable Bandwidth	Optics Communications , vol. 206, No. 2, April 2006, pp. 435-441
2006	[36]	Binh , L.N.	Lithium niobate optical modulators: Devices and Applications	Journal of Crystal Growth , vol. 288, 2006, pp.180-187.
2006	[37]	Ngo, QN and Binh , LN.	Synthesis of Tunable Optical Waveguide Filters Using Digital Signal Processing Technique	IEEE Journal of Lightwave Technology , vol.24, No.9, 2006, pp.3520-3531.
2006	[38]	Ngo, QN and Binh , LN.	Optical Realization of Newton–Cotes-Based Integrators for Dark Soliton Generation	IEEE Journal of Lightwave Technology , vol. 24, No.1, 2006, pp. 563-572
2006	[39]	Huy Quoc Lam, P. Shum, Le Nguyen Binh , and Y. D. Gong	Polarization-Dependent Locking in SOA Harmonic Mode-Locked Fiber Laser.	IEEE Photonics Technology Letters , Vol. 18, No. 22, Nov. 15, 2006, pp.2404-2407.

2005	[40]	Lai, W.J.; Shum, P.; Binh , L.N.	NOLM-NALM fiber ring laser	IEEE Journal of Quantum Electronics , Vol. 41, No. 7, July 2005 Pages 986 – 993.
2005	[41]	Wenn Jing Lai; Ping Shum; Binh , L.N.; Karlsson, M.	Phase-plane analysis of rational harmonic mode-locking in an erbium-doped fiber ring laser	IEEE Journal of Quantum Electronics , Volume 41, Issue 3, March 2005, Page(s):426 - 433
2005	[42]	Huy Quoc Lam, LN Binh , John Q. N. Ngo and Ping Shum	Locking of ultra-high peak pulses in harmonically mode-locked Erbium-doped fiber ring lasers	Optical Engineering , December 2005, Volume 44, Issue 12, 124201
2005	[43]	H.Q. Lam, L.N. Binh , John Q.N. Ngo and Ping. Shum	Observation of locking of ultra-high peak pulses in harmonically mode-locked Erbium doped fibre ring laser	Optical Engineering , Vol. 44, Issue 12, Dec 2005.
2005	[44]	N. Q. Ngo, Duan Liu, X.Y. Dong, L. N. Binh , S. C. Tjin, and S. Y. Li	A spacing tunable multiwavelength fiber laser source with a Sagnac loop filter	Optical Engineering , Vol. 44, No. 1, 014202-1 to 014202-5, Jan. 2005
2005	[45]	Zheng R.; Ngo N.; Shum P.; Tjin, S.; Binh L.N.	A Staged Continuous Tabu Search Algorithm for the Global Optimization and its Applications to the Design of Fiber Bragg Gratings	Computational Optimization and Applications , Vol. 30, No. 3, March 2005, pages 319-335.
2004	[46]	R. T. Zheng, N. Q. Ngo, L.N. Binh , S. C. Tjin, and J. L. Yang	Nonlinear group delay using asymmetric chirped gratings written in fibers under pre-stretched conditions	Optics Communications , vol. 242, 2004, pp. 259-265.
2004	[47]	S. Y. Li, N. Q. Ngo, S. C. Tjin, and L.N. Binh	Tunable and switchable optical bandpass filters using a single linearly chirped fiber Bragg grating	Optics Communications , vol. 239, 2004, pp. 339-344,
2004	[48]	W.J. Lai, P. Shum and L.N. Binh	Stability and transient analysis of temporal Talbot effect based repetition rate multiplication mode-locked laser systems	IEEE Photonics Technology Letters , Vol. 16, No.2, pp. 437-439, 2004
			Design of dispersion flattened and compensating fibers for dispersion managed optical communications systems	International Journal on Wireless and Optical Communications , Vol.2, No:1, Year:2004, pp.63-82
REFEREED CONFERENCE PAPERS				
2008	[50]	Le Nguyen Binh	Electronic Equalization of Modulation Formats for Optical Transmission	Proc. Int. Conf. Optical Comm. Networks, ICOCN 2008, Singapore Dec 2008.
2008	[51]	Le Huu Binh, Le Nguyen Binh and Vo Thanh Tu	Hop and Bandwidth Integrated Routing For Optical Ethernet Networks Under Constraints of Dispersion	Proc. Int. Conf. Optical Comm. Networks, ICOCN 2008, Singapore Dec 2008.
2008	[52]	Nhan D. Nguyen and Le Nguyen Binh	Bound-soliton states in mode-locked fiber ring lasers under active periodic phase modulation.	Proc. Conference on Lasers and Electro-Optics and the Quantum Electronics and Laser Science Conference (CLEO/QELS), San Jose CA, May 2008
2008	[53]	Le N. Binh , Nhan D.	Multi-Bound Solitons in a FM Mode-Locked Fiber Laser	OFC/NFOEC 2008 in San Diego, California, USA,

		Nguyen, Thanh L. Huynh, Huy Q. Lam		Session title: OThF - Fiber Lasers I, Paper no.: OThF4
2008	[54]	Huy Q. Lam, P. Shum, Le Nguyen Binh , Y. D. Gong, Fu Songnian, Ming Tang	Electrically Wavelength Tunable Active Mode-Locked Fiber Laser Using a Phase Modulator as Both Mode Locker and Wavelength Selector	OFC/NFOEC 2008 in San Diego, California, USA, Session title: JWA19, 2008
2008	[55]	Le Nguyen Binh	Electronic Equalization of Modulation Formats for Optical Communications (Invited Paper)	International Conf. on Optical Communications networks, Singapore, Dec2008. To be presented.
2007	[56]	H. Q. Lam, P. Shum, L. N. Binh , Y. D. Gong, and S. N. Fu,	Mathematical series for analysis of detuned active mode locked	Passive Components and Fiber-Based Devices <i>IV, Pts 1 and 2</i> , vol. 6781, pp. D7813-D7813, 2007.
2007	[57]	Lam, Huy Quoc; Shum, P.; Le Nguyen Binh ; Gong, Y.D.;	Polarization Switching in an Active Harmonic Mode Locked Fiber Laser	Joint International Conference on Optical Internet, 2007 and the 2007 32nd Australian Conference on Optical Fibre Technology. COIN-ACOFT 2007.
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2007	[59]	T. L. Huynh, T. Sivahumaran, L. N. Binh , and K. K. Pang	Sensitivity Improvement with Offset Filtering in Optical MSK Narrowband Frequency Discrimination Receiver	Proc. of COIN-ACOFT International Conference, paper TuA1-5, Melbourne Australia, June 2007.
2007	[60]	L. N. Binh and T. L. Huynh,	Phase-Modulated Hybrid 40Gb/s and 10Gb/s DPSK DWDM Long-Haul Optical Transmission	Proc. of OFC/NFOEC'07, paper JWA94, Anaheim, CA, March 25-29, 2007, pp. 1-11.
2007	[61]	T. Sivahumaran, T. L. Huynh, K. K. Pang, and L. N. Binh	Non-linear Equalizers in Narrowband Filter Receiver achieving 950 ps/nm Residual Dispersion Tolerance for 40Gb/s Optical MSK Transmission Systems	Proc. of OFC/NFOEC'07, paper OThK3, Anaheim, CA, March 25-29, 2007, pp1-3.
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2007	[63]	HQ Lam, P Shum, LN Binh , YD Wong, M Tan and S. Fu	Pulse dropout and sub-harmonic locking in an active mode-locked birefringent fiber laser	Proc. 16 th International Conf. on Integrated Optics and Optical Fiber Communications and 12 th Optoelectronics and Communications Conf., Paper 13C4-4, OECC/IOOC 2007, Yakohama, Japan.
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2007	[66]	T. L. Huynh, T. Sivahumaran, L. N. Binh , K. K. Pang	Simulation Results on Transmission of 10Gb/s Optical MSK System with Narrowband Frequency Discrimination Receiver over 560 km Standard Single Mode Fiber without Dispersion Compensation	Proc. 16 th International Conf. on Integrated Optics and Optical Fiber Communications and 12 th Optoelectronics and Communications Conf., Paper 12P-10, OECC/IOOC 2007, Yokohama, Japan.
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2006	[70]	H. Q. Lam, P. Shum, L.N. Binh , Y.D. Gong,	8 ps Pulse From a Dual Locking Range Active Mode-Locked Fiber Laser	<i>Fifth International Conference on Optical Communications and Networks (ICOON2006)</i> , ChengDu, China, 2006
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2006	[72]	Binh , LN., Huynh TL. and Lam, QH.	Optical filtering effects in hybrid 40Gb/s and 10Gb/s DPSK DWDM long-haul optical transmission	Proc. SPIE Vol. 6353, 6353-18, (2006), page 18-1-18-11.
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2006	[77]	Binh, LN, Huynh TL., Chan , L., Pang, KK.	Photonic MSK Transmitter Models Using Linear and Non-Linear Phase Shaping for non-coherent Long-haul Optical Transmission	Proc. SPIE Vol. 6353, 6353-28, (2006), page 6353-28-1 to 6353-2812
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2005	[82]	Liu D., Ngo Q.N. and L.N. Binh,	A spacing tunable multi-wavelength fiber laser source using a Sagnac loop filter	Ninth International Conference on Communication Systems, Singapore, September 2005.
2005	[83]	Tran D.D., Binh L.N., Huynh T.L., and Tiong H.S	Geometrical and Phasor Representation of Multi-level Amplitude-Phase Modulation Formats and Photonic Transmitter Structures	Proceeding of IEEE TENCON, Melbourne Australia, 21-24 Nov. 2005, Pages 34-39.
2005	[84]	Huynh T.L., Binh L.N., and Lam Q.H., and Tran D.T	Long-haul ASK and DPSK Optical Fibre Transmission Systems: Simulink Modelling and Experimental Demonstration Test-Beds	Proceeding of the IEEE TENCON, Melbourne Australia, 21-24 Nov. 2005, pages 46-52.
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2005	[88]	L.N. Binh and C. H. Li	Matlab TM SimuLink Models of Fibre Optical Amplifiers	Proceedings of the International Conference on Optical Communications Networks, Bangkok, Thailand, December 2005, Pages 410-413.
2005	[89]	L.N. Binh , T.L. Huynh and Q.H.	Improving Dispersion Tolerance of 40Gb/s Phase Modulation Optical Fiber Transmission	Proceedings of the International Conference on

		Lam	Systems Using in-line Optical Filters, (Invited Paper)	Optical Communications Networks, Bangkok, Thailand, December 2005, Pages 81-84.
2005	[90]	Lam Quoc Huy, Le Nguyen Binh , Shum Ping, Ngo Quoc Nam	Mode-locked Fibre Ring Laser: implementation and Characterization	Proceedings of the International Conference on Optical Communications Networks, Bangkok, Thailand, December 2005, Pages 77-80.
2005	[91]	L. N. Binh , H.Q. Lam and T.L. Huynh	Optical Filtering Effects in Phase-modulation Hybrid 40G and 10G DWDM Transmission, (Invited Paper)	Proceedings of the International Conference on Optical Communications Networks, Bangkok, Thailand, December 2005, pages 85-88.
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2003	[96]	W.J. Lai, L.N. Binh , P. Shum and Y.D. Gong	Ultra-stable multi-giga-pulses/sec fiber mode-locked generator	Proc. 2nd Conference on Optical Internet & 28th Australian Conference on Optical Fiber Technology, COIN/ACOFT, PO1-1.3, 2003
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2003	[101]	L.N. Binh	Modulation Formats for Long-haul 40 Gb/s	Proc. Conf. Opt. Internet and

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