

References

- 1- Agrawal, G.P., (2007) *Nonlinear Fiber Optics*. 4th Ed. Elsevier
- 2- Agrawal, G. P., (2002) *Fiber Optics Communication Systems*.3th Ed. John Wiley and Sons Inc
- 3- Agrawal, P. G. (2001) *Nonlinear Fiber Optics*. 3rd Ed. Academic Press
- 4- Agrawal, P. G. (2001) *Application of Nonlinear Fiber Optics*. 2nd Ed. Academic press
- 5- Agrawal, P. G. and Andersson, N. (1989) *Self Phase Modulation and Spectral Broadening of Optical Pulses in semiconductors Laser Amplifiers*. IEEE Journal of Quantum Electronic
- 6- Al Falah, S. M. T. (2009) *Optically Tunable Microfluid Filled Photonic Band Gap Fiber*. A Thesis Submitted in partial fulfilment of the Requirements of Baghdad University for the Degree of Doctor of Philosophy in physics. Iraq: Baghdad University.
- 7- Alfano, R. R. et al. (1989) *Cross-Phase Modulation and Induced Focusing due to Optical Nonlinearities in Optical Fibers and bulk Materials*", J. Opt. Soc. Am. B
- 8- Amir. A. et al (2013) *Modeling of Circular Photonic Crystal Fiber Structure for High Non-linearity*. ISSN Print
- 9- Antonopoulos, G. et al. (2006) *Experiment Demonstration of the Frequency Shift of Bandgaps in Photonic Crystal fibers Due to Refractive index Scaling*. Optics Express
- 10- Babu, S. G. et al.(2005) *Study of one Dimensional Photonic BandGaps at Microwave Frequencies for Microwave Filters*.
- 11- Banerjee, P., (2004) *Nonlinear Optics: theory, numerical modeling and application*. Dekker: Marcel Inc

- 12- Bass, M. et al. (1995) *Handbook of optics: Devices, Measurement and properties*. McGraw-Hill
- 13- Bass, M., and Van Stryland, E. W. (2002) *Fiber Optics Handbook, Fiber Devices and Systems for Optical Communications*. McGraw-Hill
- 14- Benabid, F. (2006) *Hollow-core photonic bandgap fiber:new light guidance for new science and technology*. Phil. Trans. R.Soc. A, Published online.
- 15- Bhagwat, R. A and Gaeta, L. A.(2008) *Nonlinear Optics in Hollow Core Photonic Bandgap Fibers*. Optics Express
- 16- Birks, A. T. et al.(2004) *Scaling Laws and Vector Effects in Bandgap Guiding Fibers*. Optics Express
- 17- Boyd, W. R. (2003) *Nonlinear Optics*. 2nd Ed. Academic Press
- 18- Buczynski, R. (2004) *Photonic Crystal Fibers*. Acta physica Polonica
- 19- Dossou, M. Sriftgiser P.and Goffin, A. (2008) *Theoretical Study of Stimulated Brillouin Scattering (SBS) in polymer Optical Fiber*. Proceedings Symposium IEEE/LEOS
- 20- Feng, X. et al (2003) *Solid Microstructured Optical Fiber*. Optics express
- 21- Frazao, O. et al. (2009) *Stimulated Raman Scattering and its Applications in Optical Communications and Optical Sensors*. The Open Optics Journal
- 22- Gupta C. M. and Ballato, J. (2007) *The Handbook of Photonics*. 2nd Ed. CRC Press
- 23- Hirooka, T. Hori Y. and Nakazawa, M. (2004) *Gaussian and Sech Approximations of Mode Field Profiles in Photonic Crystal Fibers*. IEEE Photonics Technology Letters
- 24- Joannopoulos, D. J. Meade,D. R. and Winn, N. J (1995) *Photonic Crystals: Molding the Flow of Light*. Singapore: Princeton University Press

- 25- Kbashi, J. H. et al. (2010) *Femtosecond Laser Amplification Based on Stimulated Raman Scattering in Optical Fibers*. Applied physics research
- 26- Kbashi J. H. and Abdal Daim, W. (2012) *Simulation of Short Laser Pulses Propagation Optical Fiber*. Journal of Babylon University, Pure and Applied Sciences
- 27- Kbashi, J. H. et al (2009) *Spectral Width Variation of Ultrashort Laser Pulses in Monomode Optical Fiber*. Journal of Nonlinear Optical Physics and Materials
- 28- Keiser, G. (1991) *optical fiber communications* 2ond Ed. McGraw-Hill
- 29- Knight, J.C. et al (1996) *All Silica Single Mode Fiber with Photonic Crystal Cladding*. Optics Letters
- 30- Knight, J. C. (2003) *Photonic crystal fibers*. Nature
- 31- Knight, C. J. et al (1998) *Large Mode Area Photonic Crystal Fiber*. Electronics Letters.
- 32- Koji Masuda. (2008) *Generation of Supercontinuum Light in Photonic Crystal Fibers*. Nonlinear Optics
- 33- Kuhlmeier, B. T. et al. (2002) *Microstructured Optical Fibers : where is the edge?*. Optics express
- 34- Larrion, B. et al. (2009) *Photonic Crystal Fiber Temperature Sensor Based on Quantum Dot Nanocoatings*. Journal of Sensors
- 35- Lin C. and Stolen, R.(1976) *New Nanosecond Continuum for Excited State Spectroscopy*. Applied Physics Letter
- 36- Massaro, A. (2012) *Photonic Crystals Introduction, Applications and Theory*. In Tech
- 37- Ming, M. and Liu, K.(1996) *Principles and Applications of Optical Communication*. McGraw Hill
- 38- Mitschke F.(2009) *Fiber Optics Physics and Technology*. Springer

- 39- Mogilevtsev, D., Birks A. T. and Russell, St. J. P. (1998) *Group-Velocity Dispersion in Photonic Crystal Fibers*. Optics Letters
- 40- Mortensen, A. N. et al (2003) *Modal cut-off and the V-Parameter in Photonic Crystal Fibers*. Optics Letters
- 41- Nielson, M. D. et al.(2004) *Predicting Macrobending loss for Large Mode Area Photonic Crystal Fibers*. Optics Express
- 42- Nielsen, D. M., Folkenberg R. J. and Mortensen, A. N. (2003) *Single Mode Photonic Crystal Fiber with Effective Area of 600 lm² and Low Bending Loss*. Electronics Letters
- 43- Nielsen, D. M. et al.(2004) *Bandwidth Comparison of Photonic Crystal Fibers and Conventional Single-Mode Fibers* Optics Express
- 44- Nielsen, D. M. et al.(2003) *Mode Field Radius of Photonic Crystal Fibers Expressed by the V parameter*. Optics Letters
- 45- Oh, K. et al (2005) *Novel Hollow Optical Fibers and Their Applications in Photonic*. Devices for Optical Communications, Journal of Lightwave and Technology
- 46- Philip, R (2001) *A neat Idea* IEE Review Poli, F., Cucinotta, A. and Selleri, S., (2007) *Photonic Crystal Fiber: Properties and Applications*. Springer
- 47- Ravi Teja. et al (2012) *Different types of Dispersions in optical*. International Journal of Scientific and Research Publications
- 48- Reichenbach, P. L. K. (2007) *Numerical Analysis and Experimental Study of Fiber Bundles and Multi-Core Photonic Crystal Fibers for use in Endoscopes* A Thesis Submitted in fulfilment of the Requirements of Cornell University for the Degree of Doctor of Philosophy in physics. Cornell University
- 49- Ren, G. et al.(2007) *Low-loss all-solid photonic bandgap fiber*. Optics Letters

- 50- Roberts, J. P. et al. (2006) *Design of low-loss and highly birefringent hollow-core photonic crystal fiber*. Optical Society of America
- 51- Cregan, F. R. et al. (1999) *Single-Mode Photonic Bandgap Guidance of light in air*.
- 52- Rudiger Paschotta, (2013) *Effect of Self Phase Modulation on Pulse Bandwidth*. RP Photonics Consulting
- 53- Ruffin, B. A. (2004) *Stimulated Brillouin scattering: An overview of measurement, system impairment and applications*
- 54- Saitoh, K. et al. (2010) *Realistic, Design of Large-Hollow-Core Photonic Band-Gap Fibers With Suppressed Higher Order Modes and Surface Modes*. Journal of Lightwave and Technology
- 55- Russell, P.(2003) *Photonic crystal Fibers*. Review Applied Physics
- 56- Schneider, T. Hannover, D. and Junker, M. (2006) *Investigation of Brillouin Scattering in Optical Fibers for the Generation of Millimeter Waves*. Journal of Light wave Technology
- 57- Shen, R. Y.(1984) *Principles of Nonlinear Optics*. Wiley, NY
- 58- Kale, U. R., Ingale M. P. and Murade, T. R (2013) *Comparison of SRS and SBS (Non Linear Scattering) In Optical Fiber*. IJRTE
- 59- Singh P. S. and Singh, N. (2007) *Nonlinear Effects in Optical Fibers: Origin, Management and Applications*. Progress in Electromagnetics Research
- 60- Thyagarajan K. and Ghatak, A.(2010) *Lasers Fundamental and Applications*. 2nd Ed. Springer
- 61- Vokovic, N.(2010) *Optical Properties of Long Photonic Crystal Fiber Tapers*. A Thesis Submitted in fulfillment of the Requirements of South Hampton University for the Degree of Doctor of Philosophy in physics. England: South Hampton University.