

參考文獻

- [1] Robert D. Meade, Karl D. Brommer, Andrew M. Rappe, and J. D. Joannopoulos,
Appl. Phys. Lett. 61, 495 (1992)
- [2] E. Yablonovitch, *Phys. Rev. Lett.* 58, 2059 (1987).
- [3] S. John, *Phys. Rev. Lett.* 58, 2486 (1987).
- [4] E. Yablonovitch and T. J. Gmitter, *Phys. Rev. Lett.* 63, 1950 (1989).
- [5] Y. Tsuji , M. Koshiba, *IEEE J. Lightwave Technol.*, Vol. 20, No. 3,
p. 463-468
(2002)
- [6] J. C. Knight, J. Broeng , T. A. Birks , P. St. J. Russell, *Science*,
Vol. 282, pp. 1476-1478 (1998)
- [7] E. Chow , S. Y. Lin , S. G. Johnson P.R. Cilleneuve , J. D. Joannopoulos ,
J. R. Wendt , G. A. Vawter , W. Zubrzycki , H. Hou and A. Alleman. ,
Nature, Vol.407, pp.983-986 (2000)
- [8] M. Loncar, T. Doll, J. Vuckovic and A. Scherer, *IEEE J. Lightwave Technol.* ,
Vol.18, pp. 1402-1411 (2000)
- [9] J. C. Knight, T. A. Birks, R. F. Cregan, P. St. J. Russell, J.-P. de Sandro, *Optical Material*, 11, 143 (1999).
- [10] R. A. Shelby, D. R. Smith, and S. Schultz, *Science* 292, 77 (2001).
- [11] J. C. Knight, T. A. Birks, P. St. J. Russell, and D. M. Atkin, *Opt. Lett.* 21, 1547 (1996).
- [12] A. Ortigosa-Blanch, J. C. Knight, W. J. Wadsworth, J. Arriaga, B. J. Mangan, T. A. Birks, and P. St. J. Russell, *Opt. Lett.*, vol. 25,

- pp. 1325–1327, Sep. 2000.
- [13] M. J. Steel and R. M. Osgood Jr., *J. Lightwave Technol.*, vol. 19, pp. 495 – 503, Apr. 2001.
- [14] M. J. Steel and R. M. Osgood, Jr, *Opt. Lett.* 26, 229 – 231 (2001).
- [15] J. C. Knight, Russell P S. *Science*, 296, 276~277 (2002)
- [16] J. C. Knight, Broeng J, Birk T. A., *Science*, 282, 1476~1478 (1998)
- [17] Cregan R. F., Mangan B. J., Kright J. C., *Science*, 285, 1537~1539 (1999)
- [18] T. M. Monro, P. J. Bennett, N. G. R. Broderick, *Opt. Lett.*, 25 (4), 206~208 (2000)
- [19] T. A. Birks, J. G. Knight, P. S. Russel, *Opt. Lett.*, 22(13), 961~963 (1997)
- [20] P. S. J. Ressel, J. C. Knight, T. A. Birks, *Optical Fiber Communication Conference, OSA, Technical Digest (Optical Society of America, Washington DC, 2000)*, Paper ThG1
- [21] I. P. Kaminow, V. Ramaswamy, “Single-Polarizaruin optical fibers: slab model, *Appl. Phys. Lett.*, 1979, 34 (4), pp. 1071~1089
- [22] J. Noda, K. Okamoto, Y. Sasaki, “Polarization-maintaining fibers and their application.” *J. Lightwave Technol.*, 1986, 4 (8), pp.1071~1089
- [23] Y. Jung, S. R. Han, Soan Kim, U. C. Peak, and K. Oh., “Versatile control of geometric birefringence in elliptical hollow optical fiber,” *Opt. Lett.*, 31, pp. 2681~2683 (2006)
- [24] H. Lim, A. Chong, and F. Wise, “Environmentally-stable femtosecond ytterbium fiber laser with birefringent photonic bandgap fiber,” *Opt. Express*, vol. 13, no. 9, pp. 3460 – 3464, May 2005.

- [25] M. Lehtonen, G. Genty, H. Ludvigsen, and M. Kaivola, "Supercontinuum generation in a highly birefringent microstructured fiber," *App. Phys. Lett.*, vol. 82, no. 14, pp. 2197–2199, Apr. 2003.
- [26] A. Proulx, J.-M. Ménard, N. Hô, J. M. Laniel, R. Vallée, and C. Paré, "Intensity and polarization dependences of the supercontinuum generation in birefringent and highly nonlinear microstructured fibers," *Opt. Express*, vol. 11, no. 25, pp. 3338–3345, Dec. 2003.
- [27] W. V. Sorin, B. Y. Kim, and H. J. Shaw, "Highly selective evanescent modal filter for two-mode optical fibers," *Opt. Lett.* 11, 581–583 (1986).
- [28] B. Y. Kim, J. N. Blake, H. E. Engan, and H. J. Shaw, "All-fiber acousto-optic frequency shifter," *Opt. Lett.* 411, 389–391 (1986).
- [29] A. M. Vengsarkar, W. C. Michie, L. Jankovic, B. Culshaw, and R. O. Claus, "Fiber-optic dual-temperature sensor for simultaneous measurement of strain and temperature," *J. Lightwave Technol.* 12, 170–177 (1994).
- [30] S. H. Yun, I. K. Hwang, B. Y. Kim, "All-fiber tunable and laser based on two-mode fiber," *Opt. Lett.* 21, 27–29 (1996).
- [31] H. S. Park, K. Y. Song, S. H. Yun, B. Y. Kim, "All-fiber wavelength-tunable acoustooptic switches based on intermodal coupling in fibers," *J. Lightwave Technol.* 20, 1864–1868 (2002).
- [32] L. Provino, J. M. Dudley, H. Maillotte, N. Grossard, R. S. Windeler, and B. J. Eggleton, "Compact broadband continuum source based on microchip laser pumped microstructured fiber," *Electron. Lett.* 37, 558–560, 2001.
- [33] S. Ramachandran, "Novel photonic devices in few mode fibers," *Proc. 3rd International Conference on Optical Communications and Networks*,

73-76, 30 Nov. - 1 Dec. 2004.

- [34]. A. Cucinotta, S. Selleri, L. Vincetti, and M. Zoboli, "Perturbation analysis of dispersion properties in photonic crystal fibers through the Finite element method," *J. Lightwave Technol.* 20, (2002).
- [35]. A. Cucinotta, S. Selleri, L. Vincetti, and M. Zoboli, "Holey fiber analysis through the Finite element method," *IEEE Photon. Technol. Lett.* 14, 1530-1532 2002.
- [36] Kunimasa Saitoh, and Masanori Koshiba, "Full-vectorial imaginary-distance beam propagation method based on a finite element scheme: application to photonic crystal fibers," *IEEE J. Quantum Electron.*, vol. 38, pp. 927-933, July. 2002.
- [37] S. Shi, C. Chen, and D. W. Prather, "Plane-wave expansion method for calculating band structure of photonic crystal slabs with perfectly matched layers," *J. Opt. Soc. Am. A*, 21, pp. 1769-1775, 2004.
- [38] Charles. Kittel, *Introduction to Solid State Physics*, Wiley, 1996
- [39] Max Ming-Kang Liu, *Principles and applications of Optical Communications [M]*, The McGraw-Hill Companies, Inc, 1996.
- [40] Ming-Lie Hu, Ching-Yue Wang, Yan-Feng Li, and Lu Chai, "Tunable supercontinuum generation in a high-index-step photonic-crystal fiber with a comma-shaped core," *Opt. Express*, vol. 14, no. 5, pp. 1942 - 1950, Mar. 2006.
- [41] G. P. Agrawal, *Nonlinear fiber optics*, Academic Press, 2nd edition, 1995.
- [42] Jianming Jin, *The Finite Element Method in Electromagnetics*, John Wiley and Sons, 2nd edition.
- [43] T. P. Hansen, J. Broeng, S. E. B. Libori, E. Knudsen, A. Bjarklev,

- J. R. Jensen, and H. Simonsen, "Highly birefringent index-guiding photonic crystal fibers," *IEEE Photon. Technol. Lett.*, vol. 13, pp. 588 - 590, June 2001.
- [44] Daru. Chen and Linfang Shen, "Highly birefringent elliptical-hole photonic crystal fibers with double defect," to be published by J. Lightwave Technol.
- [45] Daru. Chen and Linfang Shen, "Ultrahigh birefringent photonic crystal fiber with Ultralow confinement loss," *IEEE Photon. Technol. Lett.*, vol. 19, pp. 185 - 187, Feb. 2007.
- [46] Yuh-Sien Sun, Yuan-Fong Chau, Han-Hsuan Yeh, Lin-Fang Shen, Tzong-Jer Yang, and Din-Ping Tsai, "High Birefringence Photonic crystal fiber with complex unit cell of asymmetry elliptical air hole cladding," *Applied Optics.*, vol. 46, No. 22, pp. 1 - 6, Aug. 2007.
- [47] Li-Shu Guang, Liu Xiao-Dong, Zhou Gui-Yao and Hou Lan-Tian, "A kind of low loss birefringent photonic crystal fiber with increasing-diameter air holes," *Chin. Phys. Lett.*, vol. 22, No. 11, pp. 2855 - 2857, June 2005.
- [48] Ander Bjarklev, Jes Broeng, and Araceli Sanchez Bjarklev, "Photonic Crystal Fibers," *Kluwer Academic Publishers.*
- [49] 胡仲安，一維漸進厚度變化之光子晶體研究，碩士論文，國立交通大學電子物理所，新竹（2005）。
- [50] 翁志勳，有限元素分析法分析光子晶體光纖，碩士論文，中華大學電機所，新竹（2002）。
- [51] 樂丕綱、陳啟昌，光子晶體，五南圖書，一版，台北（2005）。
- [52] 葛德彪、簡玉波編，電磁波時域有限差分法，西安電子科技大學出版社，（2002）。