



그림7. Ti:LiNbO₃ 웨이브 가이드를 이용한 광처리 방식에 한예.

[Source: S. Suzuki et al., Proc. ISS, May27-Jun. 1, 1990 (Stockholm, Sweden) Paper C2]

의 발전은 20세기 정보통신에 있어서 전자공학이 중요한 역할을 했듯이 곧 다가오는 21세기의 정보통신에 있어서는 광자공학이 주된 역할을 하리라 믿는다.

참고문헌

1. A. L. Schawlow, and C. H. Townes, Phys. Rev., **112**, 1940 (1958).
2. T. H. Maiman, Nature(Lond), **187**, 493 (1960).
3. TIME Magazine, (Feb. 12, 1990) page 42.
4. P. Saunier, in *Microwave and Millimeter-wave Heterostructure Transistors and Their Applications*, edited by Fazal Ali et al, (Artech House, Inc, Norwood, CA, 1989) pp. 125-128.
5. N. H. Sheng et al, 1987 IEEE Int. Electron Devices Meeting Dig. Tech. Papers, pp. 619-622.
6. P. B. Berra et al, Proc. IEEE, **77**, 1797 (1989).
7. A. Yariv, IEEE Circuits & Devices Magazine, 25~28 (Nov,1989).
8. J. L. Jewell et al., Opt. Eng., **29**, 210 (1990).
9. D. A. B. Miller, Optics & Photonics News, **1**, 7 (1990).
10. H. S. Hinton, AT&T Tech. J., **66**, issue 3, 41 (1987).
11. J. L. Jewell et al., Appl. Phys. Lett., **51**, 94 (1987).
12. J. Yumoto et al., Opt. Lett., **12**, 832 (1987).
13. S. R. Friberg et al., Opt. Lett., **13**, 904 (1988).
14. R. Burzynski et al., Appl. Phys. Lett., **53**, 2011 (1988).
15. J. N. Lee, and A. D. Fisher, in *Proc. of OSA Top. Meeting on Spatial Light Modulators and Applications*, Vol. 8, (S. Lake Tahoe, NV), pp.60-63, June 1988.
16. K. Kubodera, Tech. Dig. 1990 Int. Top. Meeting on Photonic Switching, (Kobe, Japan, Apr. 12-14, 1990), Paper 14C-1.
17. I. H. White et al., Electron. Lett., **24**, 340 (1988).
18. K. Murakami, in *Tech. Dig. of 1990 Intern. Top. Meeting on Photonic Switching*, April 12-14, 1990 (Kobe, Japan) paper 14A-1.
19. K. Smith, and L. F. Mollenauer, Opt. Lett., **14**, 751 (1989).
20. N. A. Olsson et al., Tech. Dig. Opt. Fiber Commun. Conf., (San Francisco, CA, 22-26 Jan. 1990) postdeadline paper PD4-1.