

**REFERENCES**

- [1] "Traffic Engineering Fundamentals" <http://www.rbweb.cns.vt.edu> (10<sup>th</sup> January 2003)
- [2] "What is an Erlang" <http://www.erlang.com> (4<sup>th</sup> March 2002)
- [3] Nippon Telegraph and Telephone East Corporation, "Network Planning", NTT Training Institute, Tokyo, Chapter 02, 05 and 06, 1999.
- [4] "Gross Domestic Product and Gross National Product" <http://www.nscb.gov.ph/ru12/DEFINE/DEF-ECO.HTM> (15th April 2002)
- [5] Alan E. Willner and Synang-Myau Hwang "Transmission of many WDM channels through a cascade of EDFA's in long distance links and ring networks" IEEE Journal of Light wave Technology, Vol. 13, no. 5, pp. 802-816, 1995.
- [6] Djafar K. Mynbaev, Lowell L. Scheiner, "Fiber Optic Communications Technology", Addison Wesley Longman Pvt Ltd, pp 124-134, 2001.
- [7] Rajiv Ramaswami, Kumar N. Sivarajan, "Optical Networks", Harcourt Private Limited, India, pp 207-209, 2000.
- [8] N. S. Bergano, "WDM long-haul transmission systems," Paper TuF1 (Tutorial), Technical Digest of the Optical Fiber Communication Conf. (OFC 1998) San Jose, USA, Optical Society of America, pp.30, 2000.
- [9] E. Desurvire, Erbium-doped fiber amplifiers, principles and applications, New York, NY. Wiley Interscience, 1994.
- [10] P. C Becker, N. A. Olsson, J. R. Simpson, "Erbium-doped fiber amplifiers, fundamentals and technology", San Diego, CA. Academic Press, 1999.
- [11] Kyo Inoue, Hiromu Toba and Kiyoshi Nosu "Multi-channel amplification utilizing an ER<sup>3+</sup> doped fiber amplifier" IEEE Journal of Light wave Technology, Vol.9, no.3, pp.368-374, 1991.
- [12] H. Masuda, S. Kawai, K-I Suzuki, and K. Aida, "Ultrawide 72 nm 3 dB gain-band optical amplification with erbium-doped Fluoride fiber amplifiers and distributed Raman amplifiers," IEEE Photon. Technol. Lett., vol. 10, no. 4, pp. 516-518, 1998.
- [13] T. Terahara, T. Hoshida, J. Kumsako, and H. Onaka, "128 × 10.66 Gbit/s transmission over 840 km standard SMF with 140 km optical repeater spacing (30.4 dB loss) employing dual-band Raman amplification," paper PD28 (Post deadline), Technical Digest of the Optical Fiber Communication Conf. (OFC 2000) Postdeadline Volume, Baltimore, USA, Optical Society of America, pp. PD28-1 to PD28-3, 2000.
- [14] Kiyofumi Mochizuki, Noboru Edagawa and Yoshinao Iwamoto "Amplified Spontaneous Raman Scattering in fiber Raman Amplifiers" IEEE Journal of Light wave Technology, Vol.4, no.9, pp.102-109,1986.
- [15] D. Wang and C. R. Menyuk "Calculation of penalties due to polarization effects in a long-haul WDM system using a strokes parameter model" IEEE Journal of Light wave Technology, Vol.19, no.4, pp.487-494, 2001.
- [16] G. J. Foschini, L. E. Nelson, R. M. Jopson and H. Kogelnik "Statistics of Polarization Mode Dispersion" IEEE Journal of Light wave Technology, Vol. 19, no.12, pp.412-505, 2001.

- [17] A. Berntson, E. Goobar, S. Popov, L. Helczynski, G. Jacobsen, J. Karlsson, "Influence of cross-talk and pump depletion on the design of Raman amplifiers for WDM systems," Proceedings of the 26th European Conference on Optical Communications (ECOC'00), pp. 149–150 (Verlag), Sept. 5, 2000.
- [18] The ITU Association of Japan Inc, "World Telecommunication Visual Data Book", ITU Association of Japan, Tokyo, Chapter 06, 2000.
- [19] Central Bank of Sri Lanka, "Annual Report – 2001", Government Press of Sri Lanka, Colombo, pp 5-7, 2002.
- [20] "G652, G653 and G655 Specifications" <http://www.itu.int/itudoc/> (on 13<sup>th</sup> October 2002)
- [21] "Booster and Pre-Amplifier Specifications" <http://www.alcatel.com/> (on 13<sup>th</sup> December 2002)
- [22] Shigeyuki Akita, Shigendo Nihsi "Optical Cable Network Systems", KDDI Ltd, Tokyo, Chapter 11 and 12, 2001.
- [23] K. P. Kandanearachchi and I. J. Dayawansa "Repeaterless Optical Fiber Network for Sri Lanka" IEE Paper of Annual Sessions, 2003.
- [24] T. I. Lakoba and G. P. Agrawal "Optimization of average dispersion range for long haul dispersion managed systems" IEEE Journal of Light wave Technology, Vol. 18, no.11, pp.71-82, 2000.
- [25] K. P. Kandanearachchi and I. J. Dayawansa "Telecommunication traffic forecast up to year 2015" IEE Paper of Annual Sessions, 2002.



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