

8

Referências

- [1] A. S. Tanenbaum, Computer Network, EUA: Prentice Hall, 1996
- [2] Mukherjee, B. Optical Communication Networks, McGraw-Hill, New York, 1997.
- [3] Ramaswami, R. e Sivarajan, K. N., Optical Networks A Practical Perspective, Morgan Kaufmann, San Francisco, 2003.
- [4] Kramer, G. e Pesavento, G. Ethernet passive optical networks (EPON): Building a next-generation optical access network. IEEE Communications Magazine, 40, 66-73, 2002.
- [5] Stern, T. E. e Bala, K., Multiwavelength Optical Networks: A Layered Approach, Addison Wesley, 1999
- [6] Gencata, A., Singhal, N. e Mukherjee, B., Overview of Optical Communication Networks: Current and Future Trends, em Handbook of Optical Communication Networks, pp 2-21, Eds. Ilyas, M. e Mouftah, H. T., CRC Press, Boca Raton, 2003
- [7] Lindberg, B. C., Digital Broadband Networks & Services, McGraw Hill, 1997.
- [8] NEC do Brasil, SDH, NEC, 1998
- [9] Di-Lorenzo B., Shultz S., Conforming to Maze of Network Standards, Wandel & Golterman Communications Test Solutions, Alemanha, 1998
- [10] Habisreitinger W., Kaplan F., Ring Testing Enhances Reliability of SDH and SONET Ring Structures, Wandel & Golterman Communications, Alemanha, 1998
- [11] Stern, T. E. and Bala, K., 1999. Multiwavelength Optical Networks: A Layered Approach, Addison Wesley, Boston.
- [12] Green, P., 2001. Progress in optical networking, IEEE Communications Magazine, 39, 54-61.
- [13] Mukherjee, B., 1992. WDM-based local lightwave networks—Part I: Single-hop systems, IEEE Network, 6, 12-27.
- [14] Mukherjee, B., 1992. WDM-based local lightwave networks—Part II: Multihop systems, IEEE Network, 6, 20-32.

- [15] Kazovsky, L. G. and Poggiolini, P. T., 1993. STARNET: a multi-gigabit-per-second optical LAN utilizing a passive WDM star, IEEE/OSA Journal of Lightwave Technology, 11, 1009-1027.
- [16] Jia, F., Mukherjee, B. and Iness, J., 1995. Scheduling variable-length messages in a single-hop multichannel local lightwave network, IEEE/ACM Transactions on Networking, 3, 477-488.
- [17] Duanyang, G. and Acampora, A. S., 1996. Scalable multihop wdm passive ring with optimal wavelength assignment and adaptive wavelength routing, IEEE/OSA Journal of Lightwave Technology, 14, 1264-1277.
- [18] Marsan, M. A., Bianco, A., Leonardi, E., Meo, M. and Neri, F., 1996. MAC protocols and fairness control in WDM multirings with tunable transmitters and fixed receivers, IEEE/OSA Journal of Lightwave Technology, 14, 1230-1244.
- [19] Hamad, A. M. and Kamal, A. E., 2002. A survey of multicasting protocols for broadcast-and-select single-hop networks. IEEE Network, 16, 36-48.
- [20] Tridandapani, S. B., Mukherjee, B. and Hallingstad, G., 1997. Channel sharing in multi-hop WDM lightwave networks: do we need more channels?, IEEE/ACM Transactions on Networking, 5, 719-727.
- [21] Kramer, G. and Pesavento, G., 2002. Ethernet passive optical networks (EPON): Building a next-generation optical access network. IEEE Communications Magazine, 40, 66-73.
- [22] Kramer, G., Mukherjee, B. and Pesavento, G, 2002. IPACT: A dynamic protocol for an Ethernet PON (EPON), IEEE Communications Magazine 40, 74-80.
- [23] Green, P. E., 2002. Paving the last mile with glass, IEEE Spectrum 39, 13-14.
- [24] Davis, C. C., Smolyaninov, I. I. and Milner, S. D., 2003. Flexible optical wireless links and networks, IEEE Communications Magazine, 41, 51-57.
- [25] Chiu, A. L. and Modiano, E. H., 2000. Traffic grooming algorithms for reducing electronic multiplexing costs in WDM ring networks, IEEE Journal of Lightwave Technology, 18, 2-12.
- [26] Gerstel, O., Ramaswami, R. and Sasaki, G. H., 2000. Cost-effective traffic grooming in WDM rings, IEEE/ACM Transactions on Networking, 8, 618-630.
- [27] Zhang, X. and Qiao, C., 2000. An effective and comprehensive approach for traffic grooming and wavelength assignment in SONET/WDM rings, IEEE/ACM Transactions on Networking, 8608-617.

[28] Berry, R. and Modiano, E. H., 2000. Reducing electronic multiplexing costs in SONET/WDM rings with dynamically changing traffic, IEEE Journal on Selected Areas in Communications, 18, 1961-1971.

[29] Wang, J., Cho, W., Vemuri, V. R. and Mukherjee, B., 2001. Improved approaches for cost-effective traffic grooming in WDM ring networks: ILP formulations and single-hop and multihop connections, IEEE/OSA Journal of Lightwave Technology, 19, 1645-1653.

[30] Dutta, R. and Rouskas, G. N., 2002. On optimal traffic grooming in WDM rings, IEEE Journal on Selected Areas in Communications, 20, 110-121.

[31] Grover, W. D. and Doucette, J., 2001. A novel heuristic for topology planning and evolution of optical mesh networks, IEEE GLOBECOM, San Antonio, USA, November 25-29, pp. 2169-2173.

[32] Ali, M., 2002. Optimization of splitting node placement in wavelength-routed optical networks, IEEE Journal on Selected Areas in Communications, 20, 1571-1579.

[33] Ramamurthy, B., Datta, D., Feng, H., Heritage, J. P. and Mukherjee, B., 1999. Impact of transmission impairments on the teletraffic performance of wavelength routed optical networks, IEEE/OSA Journal of Lightwave Technology, 17, 1713-1723.

[34] Zang, H., Ou, C. and Mukherjee, B., 2003. Path-protection routing and wavelength assignment (RWA) in WDM mesh networks under duct-layer constraints, IEEE/ACM Transactions on Networking, 11, 248-258.

[35] Zang, H. and Mukherjee, B., 2001. Connection management for survivable wavelength routed WDM mesh networks, Optical Networks Magazine, 2, 17-28.

[36] Ramamurthy, S. and Mukherjee, B., 1999. Survivable WDM mesh networks, Part I-protection, IEEE INFOCOM-21st Conference on Computer Communications, New York, USA, March 23-25, pp. 744-751.

[37] Ramamurthy, S and Mukherjee, B., 1999. Survivable WDM mesh networks, Part II-restoration, 19th IEEE International Conference on Communications, Vancouver, Canada, June 6-10, pp. 2023-2030.

[38] Gerstel, O. and Ramaswami, R., 2000. Optical layer survivability-an implementation perspective, IEEE Journal on Selected Areas in Communications, 18, 1885-1899.

[39] Gerstel, O. and Ramaswami, R., 2000. Optical layer survivability-a service perspective, IEEE Communications Magazine, 38, 104-113. 96

- [40] Sahasrabuddhe, L., Ramamurthy, S. and Mukherjee, B., 2002. Fault management in IP-over-WDM networks: WDM protection versus IP restoration, IEEE Journal on Selected Areas in Communications, 20, 21-33.
- [41] Modiano, E. and Narula-Tam, E., 2002. Survivable lightpath routing: a new approach to the design of WDM-based networks, IEEE Journal on Selected Areas in Communications, 20, 800-809.
- [42] Wang, J., Sahasrabuddhe, L. and Mukherjee, B., 2002. Path vs. subpath vs. link restoration for fault management in IP-over-WDM networks: performance comparisons using GMPLS, IEEE Communications Magazine, 40, 80-87.
- [43] Sasaki, G. H. and Ching-Fong, S., 2003. The interface between IP and WDM and its effect on the cost of survivability, IEEE Communications Magazine, 41, 74-79.
- [44] Cox, L. A. and Sanchez, J. R., 2001. Cost savings from optimized packing and grooming of optical circuits: Mesh versus ring comparisons, Optical Networks Magazine, 2, 72-90.
- [45] Modiano, E. and Lin, P. J., 2001. Traffic grooming in WDM networks, IEEE Communications Magazine, 39, 124-129.
- [46] Lardies, A., Gupta, R. and Patterson, R. A., 2001. Traffic grooming in a multi-layer network, Optical Networks Magazine, 2, 91-99.
- [47] Zhu, K. and Mukherjee, B., 2002. Traffic grooming in an optical WDM mesh network, IEEE Journal on Selected Areas in Communications, 20, 122-133.
- [48] Dutta, R. and Rouskas, G. N., 2002. Traffic grooming in WDM networks: past and future, IEEE Network, 16, 46-56.
- [49] Cinkler, T., 2003. Traffic and _ grooming, IEEE Network, 17, 16-21.
- [50] Zhu, K., Zhu, H and Mukherjee, B., 2003. Traffic engineering in multigranularity heterogeneous optical WDM mesh networks through dynamic traffic grooming, IEEE Network, 17, 8-15.
- [51] Sahasrabuddhe, L. and Mukherjee, B., 1999. Light-trees: Optical multicasting for improved performance in wavelength-routed networks, IEEE Communications Magazine, 37, 67-73.
- [52] Sun, Y., Gu, J. and Tsang, D. H. K., 2001. Multicast routing in all-optical wavelength routed networks, Optical Networks Magazine, 2, 101-109.
- [53] Chen, B. and Wang, J., 2002. Efficient routing and wavelength assignment for multicast in WDM networks, IEEE Journal on Selected Areas in Communications, 20, 97-109.

- [54] Yao, S., Mukherjee, B. and Dixit, S., 2000. Advances in photonic packet switching: An overview, *IEEE Communications Magazine*, 38, 84-94.
- [55] Yao, S., Mukherjee, B., Yoo, S. J. B. and Dixit, S., 2001. All-optical packet switching: Challenges and opportunities, *IEEE Communications Magazine*, 39, 142-148.
- [56] O'Mahony, M. J., Simeonidou, D., Hunter, D. K. and Tzanakaki, A., 2001. The application of optical packet switching in future communication networks, *IEEE Communications Magazine*, 39, 128-135.
- [57] El-Bawab, T. S. and Shin, J.-D., 2002. Optical packet switching in core networks: Between vision and reality, *IEEE Communications Magazine*, 40, 60-65.
- [58] Yuan, X. C., Li, V. O. K., Li, C. Y. and Wai, P. K. A., 2003. A novel self-routing address scheme for all-optical packet-switched networks with arbitrary topologies, *IEEE/OSA Journal of Lightwave Technology*, 21, 329-339.
- [60] Qiao, C. and Yoo, M., 1999. Optical burst switching (OBS) - a new paradigm for an optical internet, *Journal on High Speed Networks*, 8, 69-84.
- [60] Baldine, I., Rouskas, G. N., Perros, H. G. and Stevenson, D., 2002. Jumpstart: a just-in-time signaling architecture for WDM burst-switched networks, *IEEE Communications Magazine*, 40, 82-89.
- [61] Banerjee, D. and Mukherjee, B., 1996. A practical approach for routing and wavelength assignment in large wavelength-routed optical networks, *IEEE Journal on Selected Areas in Communications*, 14, 903-908.
- [62] Wauters, N. and Demeester, P., 1996. Design of the optical path layer in multiwavelength cross-connected networks, *IEEE Journal on Selected Areas in Communications*, 14, 881-892.
- [63] Cinkler, T., Marx, D., Larsen, C. P. and Fogaras, D., 2000. Heuristic algorithms for joint configuration of the optical and electrical layer in multi-hop wavelength routing networks, *IEEE INFOCOM-22nd Conference on Computer Communications*, Tel-Aviv, Israel, March 26-30, pp. 1000-1009.
- [64] Karasan, E. and Ayanoglu, E., 1998. Effects of wavelength routing and selection algorithms on wavelength conversion gain in WDM optical networks, *IEEE/ACM Transactions on Networking*, 6, 186-196.
- [65] Xu, S., Li, L., and Wang, S., 2000. Dynamic routing and assignment of wavelength algorithms in multifiber wavelength division multiplexing networks, *IEEE Journal on Selected Areas in Communications*, 18, 2130-2137.

- [66] Kodialam, M. and Lakshman, T. V., 2001. Integrated dynamic IP and wavelength routing in IP over WDM network, IEEE INFOCOM–23rd Conference on Computer Communications, Anchorage, USA, April 22-26, pp. 358-366.
- [67] Zang, H., Jue, J. and Mukherjee, B., 2000. A review of routing and wavelength assignment approaches for wavelength-routed optical WDM networks, Optical Networks Magazine, 1, 47-60.
- [68] Mukherjee, B., 1997. Optical Communication Networks, McGraw-Hill, New York.
- [69] Labourdette, J.-F. P. and Acampora, A. S., 1991. Logically rearrangeable multihop lightwave networks, IEEE Transactions on Communications, 39, 1223-1230.
- [70] Ramaswami, R. and Sivarajan, K. N., 1996. Design of logical topologies for wavelength-routed optical networks, IEEE Journal on Selected Areas in Communications, 14, 840-851.
- [71] Mukherjee, B., Banerjee, D., Ramamurthy, S. and Mukherjee, A., 1996. Some principles for designing a wide-area WDM optical network, IEEE/ACM Transactions on Networking, 4, 684-696.
- [72] Banerjee, D. and Mukherjee, B., 2000. Wavelength-routed optical networks: Linear formulation, resource budgeting tradeoffs, and a reconfiguration study, IEEE/ACM Transactions on Networking, 8, 598-607.
- [73] Krishnaswamy, R. M. and Sivarajan, K. N., 2001. Design of logical topologies: A linear formulation for wavelength-routed optical networks with no wavelength changers, IEEE/ACM Transactions on Networking, 9, 186-198.
- [74] Dutta, R. and Rouskas, G. N., 2000. A survey of virtual topology design algorithms for wavelength routed optical networks, Optical Networks Magazine, 1, 73-89.
- [75] Dutta, R. and Rouskas, G. N., 2000. Design of Logical Topologies for Wavelength Routed Networks, in Optical WDM Networks: Principles and Practice, pp. 79-102, Eds. Sivalingam, K. M. and Subramaniam, S., Kluwer Academic Publishers, Boston.
- [76] Ramamurthy, B. and Ramakrishnan, A., 2000. Virtual topology reconfiguration of wavelength routed optical WDM networks, IEEE GLOBECOM, San Francisco, USA, November 27-December 1, pp. 1269-1275.
- [77] A. Lardiés, A. Aguilar. Planning Methodology for SDH + Optical Network, Bélgica: Alcatel-Telecom da Espanha, 1998
- [78] G. Carrasco, A. Mata, I.Garrido. Simulated Annealing Algorithms to Acess Network Planning, Belgica: Alcatel-Telecom da Espanha, 1998

- [79] E. Thibault, L. O. Barbosa, J. M. Thizy. Development of a Design Optimization Model for the National Defense Headquarters Metropolitan Area Network Backbone. Belgica, 1998
- [80] M. Minoux. Network Synthesis and Optimum Network Design Problem: models, solution, methods and applications, EUA. 1989
- [81] L. Berry, B. Murtagh, G. McMahon, S. Sugden. Optimization Models for Communication Network Design, Austrália: Bond University, 1998
- [82] B. Gavish. Augment Lagrangian Base Algorithms for Centralized network Design. EUA: IEEE Transaction Communication, vol. 33, 1995
- [83] Sreenath, N., Siva Ram-Murthy, C., Gurucharan, B. H. and Mohan, G., 2001. A two-stage approach for virtual topology reconfiguration of WDM optical networks, Optical Networks Magazine, 2, 58-71.
- [84] Dijkstra, E. A note on two problems in connexion with graphs. Numerical Mathematics, 1, 269-271, 1959.
- [85] Ford, L. R. e Fulkerson D. R. Flows in Networks. Princeton University Press, Princeton, 1962
- [86] Jewell, W. S. Optimal flow through networks, Operations Research MIT, Cambridge, MA, 1958
- [87] Iri, M. A new method of solving transportation-network problems. Journal of the Operations Research Society of Japan, 3, 27-87, 1960.
- [88] Busaker, R. G. e P. J. Gowen. A procedure for determining minimal-cost network flow patterns. Operational Research Office, Johns Hopkins University, Baltimore, MD, 1961.
- [89] Minty, G. J. Monotone networks. Proceedings of the Royal Society of London, 27, 194-212, 1960
- [90] Fulkerson D. R.. An out-of-killer method for minimal cost flow problems. SIAM Journal on Applied Mathematics 9, 18-27, 1961.
- [91] A. Ashtiani, H. A. e T. L. Magnatti. Implementing primal-dual network flow algorithms. Technical Report, Operations Research Center, MIT, Cambridge, MA, 1976
- [92] Klein, M. A primal method for minimal cost flows with application to the assignment and transportation problems. Management Science 14, 205-220, 1967.
- [93] Barahona, F. e É. Tardos. Note on Weintraub's minimum cost circulation algorithm. SIAM, Journal on Computing 18, 579-583, 1989.

- [94] Goldberg, A. V. e Tarjan R. E. Finding minimum –cost circulations by canceling negative cycles. Proceedings of the 20th ACM Symposium on the Theory of Computing, 1988
- [95] Wallacher, C. e Zimmermann U. T. A combinatorial interior point method for network flow problems. Presented at the 14th International Symposium on Mathematical Programming, Amsterdam, 1991.
- [96] Bertsekas, D. P. e P. Tseng. Relaxation methods for minimum cost ordinary and generalized network flow problems. Operations Research 36, 93-114, 1988.