

## Dr. Gerd Keiser's Publications

- Text Book: *Optical Fiber Communications*; McGraw-Hill; 3<sup>rd</sup> ed., 2000
- Text Book: *Local Area Networks*; McGraw-Hill; 2<sup>nd</sup> ed., 2002
- Book: *Optical Communications Essentials*; McGraw-Hill; forthcoming in 2003
- Over 30 technical journal and conference papers
- 4 articles in technical encyclopedias (Wiley and Academic Press)

## Journal/Conference Papers and Encyclopedia Articles

1. G. Keiser and F.Y. Wu, "Electron Gas at Metallic Densities," *Physical Review A*, vol. 6, pp. 2369-2377, Dec. 1972.
2. G. Keiser and F.Y. Wu, "Correlation Energy of an Electron Gas in the Quantum Strong-Field Limit," *Physical Review A*, vol. 8, pp. 2094-2098, Oct. 1973.
3. G. Keiser and R. Rotolante, "Radiation Effects in Intrinsic Photodetector Systems," *IRIS Detector Specialties Meeting*, March 1974.
4. G. Keiser, "Bulk Electronic Surge Arrestor," *FAA/FIT Workshop on Grounding and Lightning Protection*, Melbourne, FL, April 1977.
5. G. Keiser, "A 100-Mb/s Optical Fiber Data Link," *Electro-Optics/Laser 78 Conf. Record*, pp. 259-262, Boston, Sept. 1978.
6. G. Keiser, "Multiple-Pin Connector with Internal Surge Protection," *IEEE Trans. on Electromagnetic Compatibility*, vol. EMC-20, pp. 211-215, Feb. 1978.
7. G. Keiser, "Optical Switching in Tomorrow's Networks," *Optical Spectra*, vol. 15, pp. 39-42, Dec. 1981.
8. G. Keiser, "MX Optical Fiber Communication System," *IEEE Region 6 Conf. Record*, pp. 614-621, Honolulu, April 1981.
9. G. Keiser and R. Taylor, "Multiloop Optical Fiber Network," *Conf. on Local Area Military Networks*, pp. 62-68, Griffiss Air Force Base, NY, Sept. 1982.
10. G. Keiser, "Digital Fiber Optic Systems," *Proc. SPIE - Fiber Optic Communication Technology*, vol. 512, pp. 101-110, Aug. 1984.
11. D. H. Rice & G. Keiser, "Short-Haul Fiber Optic Connector Loss," *Proc. International Wire & Cable Symp.*, pp. 190-192, Reno, NV, Nov. 13-15, 1984.
12. D. H. Rice & G. Keiser, "Interference Canceller for a Single-Wavelength Bidirectional Optical Fiber Link," *Electronics Letters*, vol. 20, pp. 871-872, 11 Oct. 1984.
13. G. Keiser, "Design Considerations for L-Band Fiber Optic Links," *Proc. of the AFCEA Symposium on Space C3: Key for Tomorrow*, pp. 115-116, Colorado Springs, Aug. 1985.

14. D. H. Rice and G. Keiser, "Applications of Fiber Optics to Tactical Communication Systems," *IEEE Commun. Mag.*, vol. 23, pp. 46-57, May 1985.
15. G. Keiser, "An FDDI Overview," *Electro 90 Conf. Record*, pp. 723-729, Boston, May 1990.
16. G. Keiser, "Survivability in Shipboard Fiber Optic Networks," *Proc. European Military Fiber Optic & LAN Exposition*, pp. 98-105, Munich, Germany, June 1990.
17. M. Donahue, N. Guidry, and G. Keiser, "Tactical Communications Using an ATM Hub," *IEEE Military Communications (MILCOM) Conf. Record*, pp. 538-542, San Diego, Oct. 1992.
18. H. Gelman, G. Keiser, and S. Leiden, "Simulation of a Gigabit-per-Second ATM Network," *IEEE 1992 C3I Conference Record*, pp. 361-363, Rome, NY, June 1992.
19. H. Hernandez, G. Keiser, and D. Morrissey, "Modeling of Multimedia FDDI," *IEEE MILCOM Conf. Record*, pp. 922-926, Boston, Oct. 1993.
20. G. Keiser, C. Seneski, and C. Sullivan, "Development of an ATM Test Cell Analyzer," *IEEE MILCOM Conf. Record*, pp. 323-327, Boston, Oct. 1993.
21. G. Keiser, "Standards and Methods for Testing ATM Networks," *US Dept. of Defense Fiber Optics & Photonics Conf. '94*, pp. 189-192, McLean, VA, March 1994.
22. G. Keiser, D. Freeman, C. Seneski, "Cell Delay Variation Measurements in ATM Networks," *Proc. IEEE Int'l Conf. on Computer Communications & Networking*, pp. 6-11, San Francisco, Sept. 1994.
23. T. T. Ha, G. Keiser, and R. Borchardt, "Performance Analysis of Direct-Detection Lightwave Systems with Optical Amplifiers," *Proc. IEEE MILCOM '94*, pp. 357-361, Oct. 1994.
24. G. Keiser, C. Carter, D. Freeman, "ATM Test Traffic Generation Algorithms," *Proc. IEEE Int'l Conf. on Computer Communications & Networking*, pp. 462-469, Las Vegas, Sept. 1995.
25. G. Keiser, F. Pope, K. Wellington, "Bit Error Rate Measurements in a WDM Network," *IEEE MILCOM 1995 Conf. Record*, San Diego, pp. 1284-1287, Nov. 1995.
26. G. Keiser, D. Freeman, C. Carter, "Test Traffic Generation Equipment and Algorithms for Evaluating ATM Networks," *Computer Communications.*, vol. 19, pp. 962-971, Oct. 1996.
27. T. T. Ha, G. Keiser, and R. Borchardt, "Bit Error Probability of OOK Lightwave Systems with Optical Amplifiers," *Journal of Optical Communications.*, vol. 18, pp. 151-155, Aug. 1997.
28. G. Keiser, Invited tutorial paper, "Wavelength Division Multiplexing (WDM)," *Optical Fiber Technology*, vol. 5, pp. 3-39, Jan. 1999.

29. G. Keiser, "DWDM passive components," *All-Optical Networks ComForum*, pp. B1-1 to B1-4, Orlando, May 2001.
30. G. Keiser, "WDM Technology Enablers," Plenary speech, *IEEE Symp on Recent Advances in Photonics Technology*, Hong Kong, Dec. 2001.
31. G. Keiser, "DWDM passive components," in *Optical Networks: Architectures and Advances Report*, International Engineering Consortium, Chicago, 2001.
32. G. Keiser, "The Historical Development of Fiber Optics Communications," *Encyclopedia of Modern Optics*, edited by: B. Guenther, A. Miller, L. Bayvel, and J. Midwinter, Academic Press, 2002.
33. G. Keiser, "Optical Fiber Communications Systems Architectures," *Encyclopedia of Modern Optics*, edited by: B. Guenther, A. Miller, L. Bayvel, and J. Midwinter, Academic Press, 2002.
34. G. Keiser, "Optical Couplers," *Encyclopedia of Telecommunications*, John Proakis, editor, Wiley, 2002.
35. G. Keiser, "Optical Fiber Communications," *Encyclopedia of Telecommunications*, John Proakis, editor, Wiley, 2002.
36. G. Keiser, "Overview of WDM Link Constituents," Invited paper, *IEEE International Conf. Optical Communication Networks (ICOON) 2002*, Singapore, Nov. 2002.
37. G. Keiser, "Perspectives on Education and Training in Optical Communications," Invited Keynote Speech, *IEEE International Conf. Optical Communication Networks (ICOON) 2002*, Singapore, Nov. 2002.