

Section 1.10: Further Reading

The following list has references to interesting and informative reading material. The “easy reading” section has construction plans for various lasers and optical systems.

Easy Reading

1. Building Scientific Apparatus, A Practical Guide to Design and Construction, J. H. Moore, C. C. Davis, M. A. Coplan, Addison-Wesley Publishing Company, London (1983).
2. Lasers, Ray Guns, & Light Cannons, Projects from the Wizard’s Workbench, G. McComb, McGraw-Hill, New York (1997)

Fabrication

3. Modern GaAs Processing Methods, Ralph Williams, Artech House, Boston (1990)
4. Handbook of Semiconductor Manufacturing Technology, Y. Nishi and R. Doering, Editors, Marcel Dekker, Inc., New York (2000)

Noise

5. Low-Noise Electronic System Design, C. D. Motchenbacher, J. A. Connelly, John Wiley & Sons, Inc., New York (1993)
6. An Introduction to the Theory of Random Signals and Noise, W. B. Davenport, W. L. Root, McGraw-Hill Book Company, New York (1958)

Optoelectronics: Circuits

7. Optoelectronics Circuits Manual, 2nd Ed., R. M. Marston, Newnes (1999).
8. Optoelectronics, Fiber Optics and Laser Cookbook, More than 150 Projects and Experiments, T. Petruzzellis, McGraw-Hill, New York (1997).

Principles and Systems

9. Optoelectronics and Photonics, Principles and Practices, S. O. Kasap, Prentice Hall, Upper Saddle River (2001)
10. Laser Engineering, K. J. Kuhn, Prentice-Hall Inc., Upper Saddle River, (1998)
11. Fundamentals of Optics, F. A. Jenkins, 4th Ed., H. E. White, McGraw-Hill, New York (1976).

Reference Books

12. Photonics Rules of Thumb: Optics, Electro-Optics, Fiber Optics and Lasers, J. L. Miller and E. Friedman, McGraw-Hill Professional (1996)
13. Introduction to Semiconductor Technology, GaAs and Related Compounds, C. T. Wang, Ed., John Wiley & Sons, New York (1990)

Semiconductors

14. Solid State Electronic Devices, 5th Ed., B. G. Streetman, S. Banerjee, Prentice Hall, Saddle Creek (1999).
15. Introduction to Solid State Physics, 5th Ed., C. Kittel, John Wiley & Sons, New York (1976)

- 16.** Optical Processes in Semiconductors, J. I. Pankove, Dover Publications, New York (1971)
- 17.** Physics of Semiconductor Devices, 2nd Ed., S. M. Sze, John Wiley & Sons, New York (1981)