



Fundamentals of Light Sources and Lasers

Mark Csele

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A comprehensive introduction to the burgeoning field of photonics

The field of photonics is finding increasing applications across a broad range of industries. While many other books provide an overview of the subject, *Fundamentals of Light Sources and Lasers* closes a clear gap in the current literature by concentrating on the principles of laser operation as well as providing coverage of important concepts necessary to fully understand the principles involved. The scope of the book includes everything a professional needs to get up to speed in the field, as well as all the material necessary to serve as an excellent introductory laser course for students.

Ideal for self-study as well as structured coursework, the book offers thorough coverage of:

- * The nature of light and atomic emission
- * Basic quantum mechanics and laser processes
- * Cavity optics, fast-pulse production, and nonlinear optical phenomena
- * Laser technology, including visible gas lasers, UV gas lasers, infrared gas lasers, solid-state lasers, semiconductor lasers and tunable dye lasers

Extensive real-world case studies are included to help readers appreciate the practical applications of the material covered.

*An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

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