

Lasers and Optoelectronics: Fundamentals, Devices and Applications

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With emphasis on the physical and engineering principles, this book provides a comprehensive and highly accessible treatment of modern lasers and optoelectronics. Divided into four parts, it explains laser fundamentals, types of lasers, laser electronics & optoelectronics, and laser applications, covering each of the topics in their entirety, from basic fundamentals to advanced concepts.

Key features include:

- exploration of technological and application-related aspects of lasers and optoelectronics, detailing both existing and emerging applications in industry, medical diagnostics and therapeutics, scientific studies and Defence.
- simple explanation of the concepts and essential information on electronics and circuitry related to laser systems
- illustration of numerous solved and unsolved problems, practical examples, chapter summaries, selfevaluation exercises, and a comprehensive list of references for further reading

This volume is a valuable design guide for R&D engineers and scientists engaged in design and development of lasers and optoelectronics systems, and technicians in their operation and maintenance. The tutorial approach serves as a useful reference for under-graduate and graduate students of lasers and optoelectronics, also PhD students in electronics, optoelectronics and physics.



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