

Lasers and Optoelectronics: Fundamentals, Devices and Applications

By Anil K. Maini

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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, self-evaluation 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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Editorial Review

From the Back Cover
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This volume is a valuable design guide for R&D engineers and scientists engaged in the design and development of lasers and optoelectronics systems and for technicians involved in the operation and maintenance of lasers. The tutorial approach is useful for undergraduate, graduate and research students of lasers, electronics, optoelectronics and physics.

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Dr. Anil K. Maini is presently Director of **Laser science and technology centre**, **Delhi**, a premier R&D Laser Laboratory of Defence Research and Development Organization under Ministry of Defence, Govt. of India. He has more than 35 years of R&D experience as a Scientist, Team Leader, Project Director and Director in diverse disciplines related to Electronics, Lasers and Optoelectronics technologies and systems. His contributions have led to number of innovations in the development of different types of *Electronics systems*, *Optronic sensors* and *Directed energy laser systems* for Indian Defence forces. The key products and technologies developed under his guidance include *Power Electronics Systems*, family of *Laser Dazzling Systems* for Homeland security applications, Laser Systems for Electro Optic Counter Measures (EOCM) applications and *Optoelectronic Simulators & Sensors* for electro optically guided precision strike munitions.

Dr. Anil K. Maini is Life Fellow of Institution of *Electronics and Telecommunication Engineers (IETE)* and a senior life member of *Indian Laser Association*. He has written extensively on a wide range of subjects in Electronics and Optoelectronics. He has authored and co-authored twelve books, 6 of the twelve books being international publications. He has delivered numerous invited talks at various universities and research centres. He has worked with several international universities under different collaborative research programmes. He has to his credit five patents and more than 125 publications in National and International journals.

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