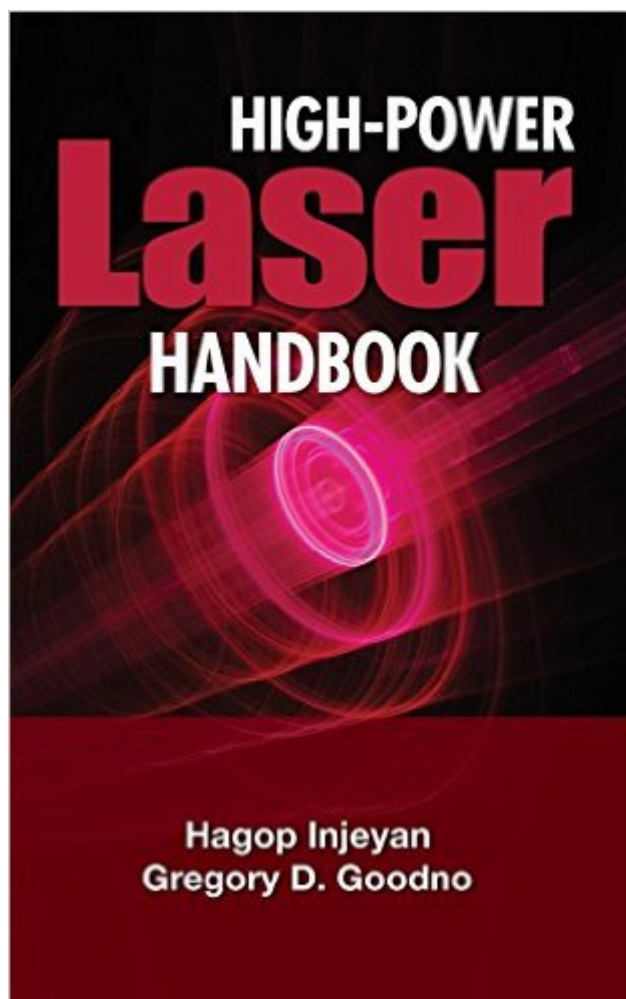


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# High Power Laser Handbook



## Synopsis

The State of the Art in High-Power Laser Technology Filled with full-color images, High-Power Laser Handbook offers comprehensive details on the latest advances in high-power laser development and applications. Performance parameters for each major class of lasers are described. The book covers high-power gas, chemical, and free-electron lasers and then discusses semiconductor diode lasers, along with the associated technologies of packaging, reliability, and beam shaping and delivery. Current research and development in solid-state lasers is described as well as scaling approaches for high CW powers, high pulse energies, and high peak powers. This authoritative work also addresses the emergence of fiber lasers and concludes by reviewing various methods for beam combining. Coverage Includes: Carbon dioxide lasers Excimer lasers Chemical lasers High-power free-electron lasers Semiconductor laser diodes High-power diode laser arrays Introduction to high-power solid-state lasers Zig-zag slab lasers ThinZag high-power laser development Thin disk lasers Heat capacity lasers Ultrafast solid-state lasers Ultrafast lasers in the thin disk geometry The National Ignition Facility laser Optical fiber lasers Pulsed fiber lasers High-power ultrafast fiber laser systems High-power fiber lasers for industry and defense Beam combining

## Book Information

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## Customer Reviews

This is the best book on laser I've ever read!! It is easy to understand and complete. It is comprehensive and complete. This does justice to topic of high energy lasers and I recommend it.

I ordered this book thinking it is an introductory to lasers but I guess it wasn't. It's smaller than it looks like in the picture but still has 400+ pages, many detailed illustrations, and it's overall pretty nice.....Now only if I could understand half of it..

This is a good introductory book but to anybody already working in the area is not very helpful. It contains more descriptive and qualitative contents rather than quantitative results. It gives a broad cover of the area but lacks depth: you can neither end up simulating these lasers nor start constructing your own lasers from scratch. In addition to that, it fails to address how to safely handle these lasers that can be extremely dangerous to your eyes and skin.

Good value high quality printed material, could include more applications of the lasers covered

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