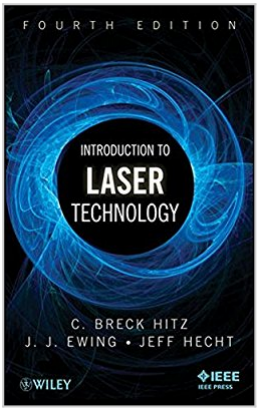

Introduction to Laser Technology

By C. Breck Hitz, James Ewing, Jeff Hecht

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The only introductory text on the market today that explains the underlying physics and engineering applicable to all lasers

Although lasers are becoming increasingly important in our high-tech environment, many of the technicians and engineers who install, operate, and maintain them have had little, if any, formal training in the field of electro-optics. This can result in less efficient usage of these important tools.

Introduction to Laser Technology, Fourth Edition provides readers with a good understanding of what a laser is and what it can and cannot do. The book explains what types of laser to use for different purposes and how a laser can be modified to improve its performance in a given application. With a unique combination of clarity and technical depth, the book explains the characteristics and important applications of commercial lasers worldwide and discusses light and optics, the fundamental elements of lasers, and laser modification.?

In addition to new chapter-end problems, the *Fourth Edition* includes new and expanded chapter material on:

- Material and wavelength
- Diode Laser Arrays
- Quantum-cascade lasers
- Fiber lasers
- Thin-disk and slab lasers
- Ultrafast fiber lasers
- Raman lasers
- Quasi-phase matching
- Optically pumped semiconductor lasers

Introduction to Laser Technology, Fourth Edition is an excellent book for students, technicians, engineers, and other professionals seeking a fuller, more formal introduction to the field of laser technology.

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Editorial Review

From the Back Cover
Electrical Engineering Introduction to Laser Technology Third Edition Would you like to know how a laser works, and how it can be modified for your own specific tasks? This intuitive third edition-previously published as Understanding Laser Technology, First and Second Editions-introduces engineers, scientists, technicians, and novices alike to the world of modern lasers, without delving into the mathematical details of quantum electronics. It is the only introductory text on the market today that explains the underlying physics and engineering applicable to all lasers. A unique combination of clarity and technical depth, this book begins with an introductory chapter that explains the characteristics and important applications of commercial lasers worldwide. It proceeds with discussions on light and optics, the fundamental elements of lasers, and laser modification. The concluding chapters are composed of a survey of modern lasers, including:
* Semiconductor lasers
* Optically pumped solid-state lasers
* Ion, HeNe, and HeCd lasers
* Carbon dioxide lasers
* Excimer lasers (codiscovered by J. J. Ewing)
* Ultrafast and tunable lasers, OPOs
Introduction to Laser Technology, Third Edition is intended for those who are familiar with the principles of electro-optical technology, but possess limited formal training. This comprehensive treatment is essential, one-stop shopping for professionals, students, and non-engineer executives interested in the design, sales, or applications of the laser and electro-optics industry.

About the Author

C. Breck Hitz is Executive Director of LEOMA, the Laser and Electro-Optics Manufacturers' Association. He was the founding editor of *Lasers & Applications* magazine, and a former editor of *Laser Focus World*.

J. J. Ewing is the President of Ewing Technology Associates, Inc. His pioneering work on high-efficiency, ultraviolet lasers led to the discovery and development of the rare gas halide excimer lasers.

Jeff Hecht is a contributing editor to *Laser Focus World* and correspondent for *New Scientist* magazine. He was a cofounder and contributing editor to Lasers & Applications. Mr. Hecht is the author of ten books, including *Understanding Lasers: An Entry-Level Guide* (Wiley-IEEE Press).

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