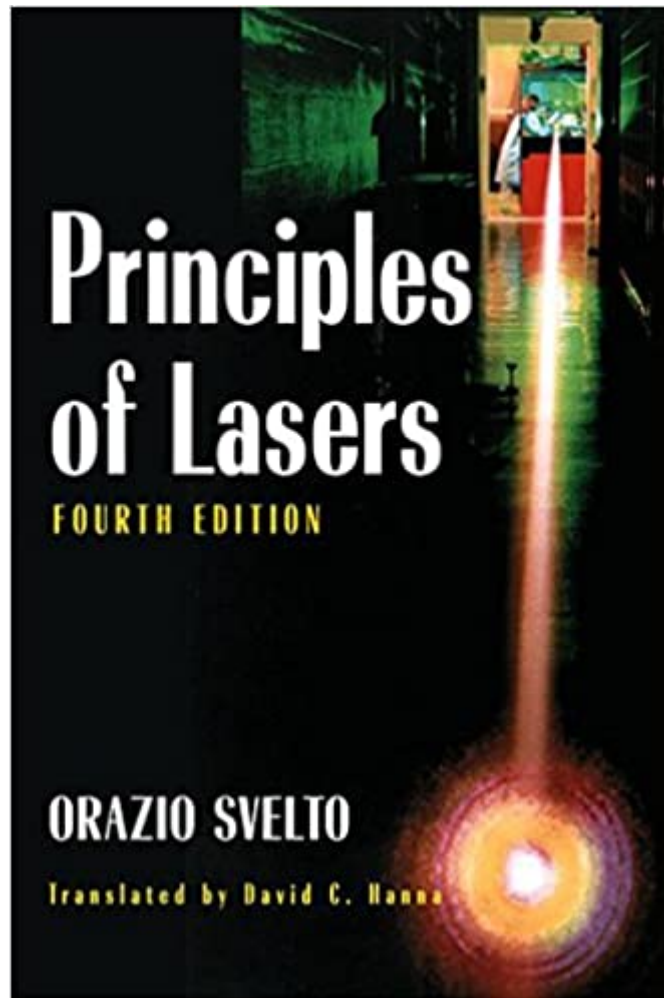




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Principles Of Lasers (Library)



Synopsis

This new Fourth Edition of Principles of Lasers is so thoroughly updated and expanded that it is virtually a whole new book. But the text's essential mission remains the same: to provide a wide-ranging yet unified description of laser behavior, physics, technology, and current applications. Dr. Svelto emphasizes the physical rather than the mathematical aspects of lasers, and presents the subject in the simplest terms compatible with a correct physical understanding. Praise for earlier editions: Professor Svelto is himself a longtime laser pioneer and his text shows the breadth of his broad acquaintance with all aspects of the field; Anyone mastering the contents of this book will be well prepared to understand advanced treatises and research papers in laser science and technology." (Arthur L. Schawlow, 1981 Nobel Laureate in Physics) "Already well established as a self-contained introduction to the physics and technology of lasers; Professor Svelto's book, in this lucid translation by David Hanna, can be strongly recommended for self-study or teaching at the final-year undergraduate or first-year post-graduate levels." (Physics Bulletin) "A thorough understanding of this book in conjunction with one of the existing volumes on laser safety will go a long way in providing the health physicist with the understanding he needs; Highly recommended." (Health Physics) "Introduces laser science and technology with the accessibility appropriate for the nonspecialist and the enthusiasm of the pioneer." (Laser Focus) "A very good introduction to laser theory and practice; aimed at upper-level undergraduate students. It is logically organized and easy to read; Most of the basic mathematical framework needed to understand this evolving field is presented. Every chapter contains a good set of problems, answers to some of which are given in the back." (Sci-Tech News)

Book Information

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Customer Reviews

From the reviews of earlier editions: “Certainly, the student who is led into the laser field by this text is lucky. The text is excellent and filled with appropriate illustrations. The questions are also helpful as they highlight the important topics. All important types of lasers are considered and for each type the proper background is developed. For many years, this book has been the standard against which other textbooks in this field were measured, mostly unfavourably. This edition will certainly retain its top place.” (Optics & Laser Technology, 31, 1999)

“Professor Svelto is himself a longtime laser pioneer and his text shows the breadth of his broad acquaintance with all aspects of the field. Anyone mastering the contents of this book will be well prepared to understand advanced treatises and research papers in laser science and technology.” (Arthur L. Schawlow, 1981 Nobel Laureate in Physics)

“Already well established as a self-contained introduction to the physics and technology of lasers Professor Svelto’s book, in this lucid translation by David Hanna, can be strongly recommended for self-study or teaching at the final-year undergraduate or first-year post-graduate levels.” (Physics Bulletin)

“A thorough understanding of this book in conjunction with one of the existing volumes on laser safety will go a long way in providing the health physicist with the understanding he needs.” Highly recommended. (Health Physics)

“Introduces laser science and technology with the accessibility appropriate for the nonspecialist and the enthusiasm of the pioneer.” (Laser Focus)

“A very good introduction to laser theory and practice aimed at upper-level undergraduate students. It is logically organized and easy to read. Most of the basic mathematical framework needed to understand this evolving field is presented. Every chapter contains a good set of problems, answers to some of which are given in the back.” (Sci-Tech News)

Text: English (translation) Original Language: Italian

As a scientist working in laser medical application field I see this book is very useful for me. It was written in a language style that everyone who has a basic knowledge of physics can understand. Just enough theoretical, just enough practical aspect. I recommend it for you, too.

This book is extremely clear and even a completely newby can read it. At the same time, nothing is left halfway and the subject is covered with extreme care and depth. Congratulations to the author !

"...the student that is led into the laser field by this text is lucky. The text is excellent and filled with appropriate illustrations...Overall, this work will also be useful as a reference for the topics covered. The literature references are copious and appropriate. The text is well supplied with figures and graphs and for those areas considered in detail, the book is and will remain a very good reference volume."

I have found this book to be extremely comprehensive and detailed, great for anyone who wants to learn both the basic and advanced concepts of lasers. The book is definitely for the more advanced undergraduate students (and grad students, of course) who have a background in quantum mechanics, and higher-level calculus. The translation from Italian is perfect. Highly recommended.P.S.: In reply to the review written by 'A Reader' below, 'newby' is spelt 'newbie' (or 'noob').

Clearly written, without oversimplifying some of the more subtle items (which are so often swept under the carpet in simpler treatments of the field - such as the QFT treatment of spontaneous emission). First a clear and detailed discussion of all the aspects of the working principles of a laser is presented, and then specific laser types are described, all this in a very readable style. Great book.

Very good. I recommend it for anyone who works with lasers. Very accurate and easy to read.-KC, NRL

Well, after reading all the other reviews, I feel like an idiot. I have spent many hours trying to read this book and haven't made much progress. This book is not good for a beginner, and it requires knowledge of many other fields before the equations and applications make sense. I don't think it's fair to say that a beginner can pick this book up and understand the subject well. That person needs to have a good background in optics, quantum, and EM at least.

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