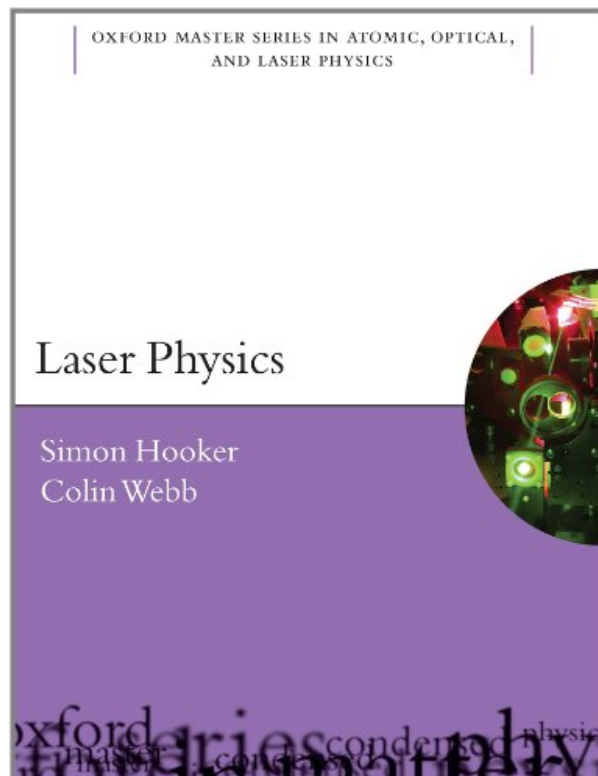


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"Very well-written while using a clear and concise style. Figures are plentiful and neatly printed...impressive array of topics. Laser Physics, by Hooker and Webb, is highly recommended as a text book and to practitioners seeking to review some of the fundamentals."--Optics Journal

## About the Author

Simon Hooker's doctoral and early post-doctoral work in Oxford involved a study of novel line- and broadly-tunable vacuum ultraviolet (VUV) lasers optically-pumped by a molecular fluorine laser. In 1994 he moved to Stanford University to work with Prof. Steve Harris. He returned to the UK in 1996 to take up a Royal Society University Research Fellowship and to start a new research group in the Clarendon Laboratory. He joined the faculty of Oxford's Department of Physics in 2005; he was made Reader in 2006, and Professor in 2008.

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In Laser Physics the interaction of radiation and matter, and the principles of laser operation are treated at a level suitable for fourth-year undergraduate courses or introductory graduate courses in physics, chemistry or engineering. The factors which determine efficiency, wavelength coverage, output power, and beam quality of the different classes of laser are treated both in terms of fundamental theory and practical construction aspects. Details of established types of solid-state, semiconductor, and gas lasers are examined together with the techniques that enable their output to be converted widely across the spectrum. The latest advances in high power fibre lasers, femtosecond lasers, and X-ray lasers are explained. The text is liberally illustrated with more than 300 diagrams. An extensive bibliography is provided, together with numerical problems in each chapter. Solutions are available via the web.

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- Sales Rank: #1435784 in Books
- Published on: 2010-09-30
- Original language: English
- Number of items: 1
- Dimensions: 7.40" h x 1.20" w x 9.50" l, 2.90 pounds
- Binding: Paperback
- 608 pages

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