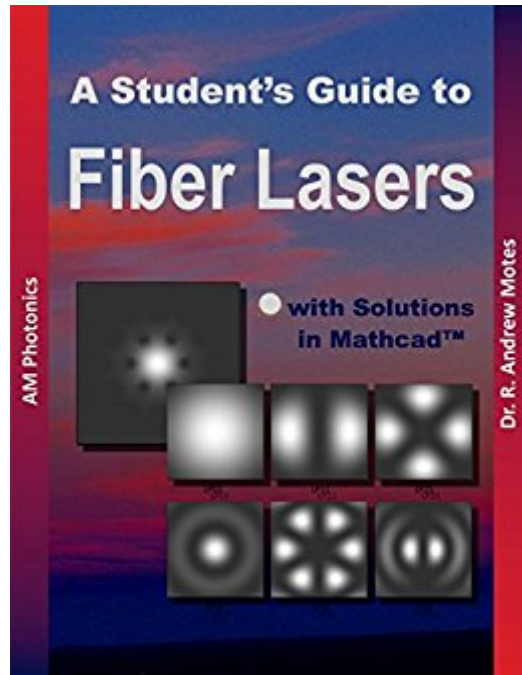




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A Student's Guide To Fiber Lasers



Synopsis

Everything you need to know about fiber lasers to jumpstart your education, research, or employment in the fields of optics and lasers. You'll learn about step-index fibers, micro-structured fibers (photonic crystal, multi-core, leaky channel, etc.). You'll learn how to calculate modes for the step-index fiber and how to determine stability for micro-structured fibers. You'll learn about optical waveguides and how these are converted to fiber lasers, both continuous-wave and pulsed. The author uses many example problems and the text has web links so you can download all the Mathcad code.

Book Information

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Customer Reviews

A brief, clear and concise explanation of fiber lasers. The book begins with a review of optical waveguides for those who need it and even includes a discussion on photonic crystal fibers. The discussion include mathematical detail but also gives understanding through physical insight. The book then moves into fiber amplifiers and lasers (including pulsed lasers), and includes detail of

the various king of rare earth dopants and manufacturing. Once again the physics of lasers is present and nicely supplemented with intuitive explanations. I teach a course in laser theory and design at a major state university at the advanced undergraduate - beginning graduate level. Since the price of the Kindle edition is so affordable I plan to recommend the book to my students as a great way to understand fiber lasers. One final comment; the book includes numerical examples, often lacking in more formal texts on lasers. It even includes the Matlab source code for the examples and exercises in the text. LOTS of useful, easy to read information in relatively few pages. I highly recommend the book.

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