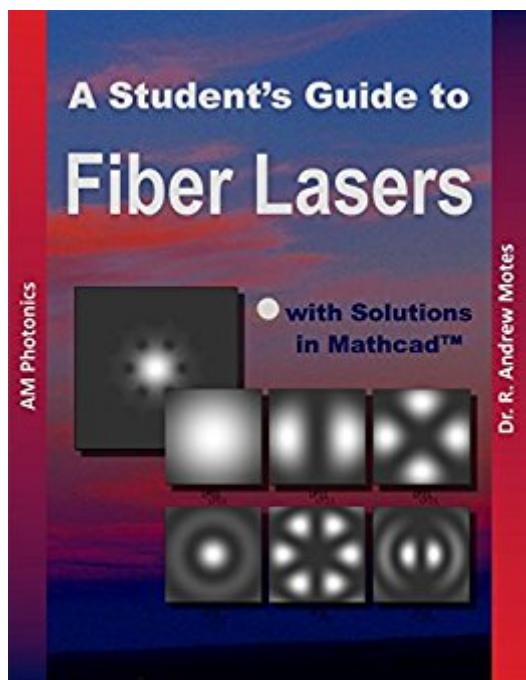


The book was found

# 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**

File Size: 6602 KB

Print Length: 264 pages

Publisher: AM Photonics (November 5, 2014)

Publication Date: November 5, 2014

Sold by: Digital Services LLC

Language: English

ASIN: B00PB6381Q

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #229,452 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #10 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Optics #10 in Kindle Store > Kindle eBooks > Nonfiction > Science > Physics > Light #64 in Books > Science & Math > Physics > Optics

## **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 on into fiber amplifiers and lasers (including pulsed lasers), and includes detail of the various kinds 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 addition 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 example, 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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