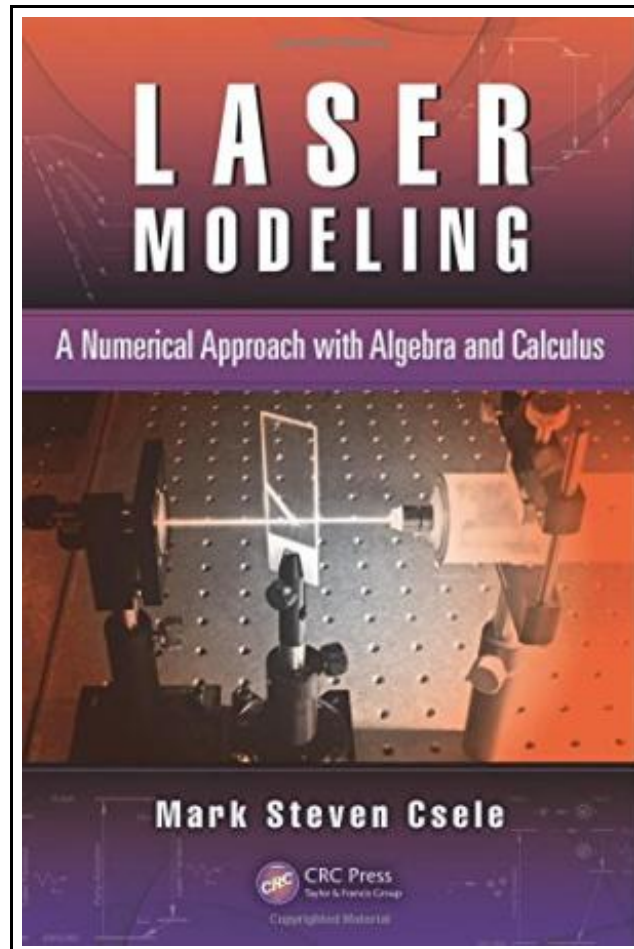


Laser Modeling: A Numerical Approach with Algebra and Calculus (Hardback)



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Reviews

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Taylor Francis Inc, United States, 2014. Hardback. Book Condition: New. 232 x 156 mm. Language: English . Brand New Book. Offering a fresh take on laser engineering, *Laser Modeling: A Numerical Approach with Algebra and Calculus* presents algebraic models and traditional calculus-based methods in tandem to make concepts easier to digest and apply in the real world. Each technique is introduced alongside a practical, solved example based on a commercial laser. Assuming some knowledge of the nature of light, emission of radiation, and basic atomic physics, the text:

- * Explains how to formulate an accurate gain threshold equation as well as determine small-signal gain
- * Discusses gain saturation and introduces a novel pass-by-pass model for rapid implementation of what if? scenarios
- * Outlines the calculus-based Rigrod approach in a simplified manner to aid in comprehension
- * Considers thermal effects on solid-state lasers and other lasers with new and efficient quasi-three-level materials
- * Demonstrates how the convolution method is used to predict the effect of temperature drift on a DPSS system
- * Describes the technique and technology of Q-switching and provides a simple model for predicting output power
- * Addresses non-linear optics and supplies a simple model for calculating optimal crystal length
- * Examines common laser systems, answering basic design questions and summarizing parameters
- * Includes downloadable Microsoft(R) Excel(TM) spreadsheets, allowing models to be customized for specific lasers

Don't let the mathematical rigor of solutions get in the way of understanding the concepts. *Laser Modeling: A Numerical Approach with Algebra and Calculus* covers laser theory in an accessible way that can be applied immediately, and numerically, to real laser systems.

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