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## Nonlinear Optics: A Student s Perspective: With Python Problems and Examples (Paperback)

By Mark G Kuzyk

Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. \*\*\* Note to instructors. This book is available free of charge as an eBook on Perusall, the peer discussion forum. \*\*\* This unique textbook on nonlinear optics is written by award-winning teacher and researcher, Regents Professor Mark G. Kuzyk of Washington State University. It is ideal for a class or as a reference, and can be used for self study. Exercises are provided as material is introduced to reinforce concepts. The book s approach mirrors the author s philosophy that a firm grounding in the fundamentals will allow the student to tackle any topic. As such, many topics are left out while others are covered in depth to develop the intuition. Physics is meant to be savored, so this book should be consumed slowly with attention to the deeper meaning of the topics presented. The rest will naturally fall into place. Material not normally discussed in standard textbooks that is covered here includes the introduction of second quantization and how it can be applied to Feynman-like diagrams for calculating nonlinear susceptibilities. Dirac notation is introduced to facilitate the development of the...



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