



# Geometrical and Trigonometric Optics

*Eustace L. Dereniak, Teresa D. Dereniak*

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**Geometrical and Trigonometric Optics** Eustace L. Dereniak, Teresa D. Dereniak

Optics has recently evolved into one of the most flourishing fields in physics, with photonics finding increasing application in products such as optical thermometers, camera monitors and LED lighting, plus numerous military applications. This book covers the geometrical aspects of optics, the fundamental level of understanding the technology. Beginning with how light is generated and how fast it travels, the book discusses how materials interact with light, how various materials affect the velocity of light, and the ramifications of change in the speed of light. The concept of the index of refraction, and how it is used with Snell's law to produce image forming systems, is developed. An ideal textbook for advanced undergraduate level courses in geometrical optics, this book will also interest those wanting to learn the concepts and theory of geometrical optics. Each chapter contains worked examples, and there are exercises to reinforce the reader's understanding of material.

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