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## Lens Design Fundamentals

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## **Lens Design Fundamentals - 2nd Edition - Elsevier**

Application of lens design fundamentals will almost always result in a preferable design and also provide guidance for the lens designer to control/redirect the optimization path being taken by the lens design program. For example, in Chapter 7 we showed there can be four solutions for a spherically corrected achromat.

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All lens design procedures are based on the principles of geometrical optics, which assumes that light travels along rays that are straight in a homogeneous medium. Light rays are refracted or reflected at a lens or mirror, where they proceed to form an image.

## **Lens Design - an overview | ScienceDirect Topics**

Angle of view: Medium telephoto Description: Great for isolating a subject from the background. Good for portrait photography. Depth of field: Easy to get a shallow depth of field. Distortion of space: Makes things seem closer than they actually are.

## **Photography 101: Understanding Camera Lenses Basics - 2020 ...**

Lens design Fundamentals (Rudolf Kingslake), Applied Optics and Optical Design Part 1 and Part 2 (A. E. Conrady), Modern Lens Design (Warren J. Smith), and Optical system design (Robert Fischer), Introduction to Lens Design: With Practical Zemax Examples (Joseph Geary), are all great books, just to name a few.

## **Optical Lens Design Using a Spreadsheet / Excel: The ...**

Design constraints can include realistic lens element center and edge thicknesses, minimum and maximum air-spaces between lenses, maximum constraints on entrance and exit angles, physically realizable glass index of refraction and dispersion properties. Manufacturing costs and delivery schedules are also a major part of optical design.

## **Optical lens design - Wikipedia**

Lens Design Fundamentals, Second Edition, is the most comprehensive treatise to be published on the subject of Lens Design. This book holds a unique place in the optics literature.

## **Amazon.com: Customer reviews: Lens Design Fundamentals**

Lens Design Fundamentals. by Kingslake, Rudolf/ Johnson, R. Barry. Thoroughly revised and expanded to reflect the substantial changes in the field since its publication in 1978 Strong emphasis on how to effectively use software design packages, indispensable to today's lens designer Many new lens design problems and examples ranging from simple lenses to complex zoom lenses and mirror systems give insight for both the newcomer and specialist in the field Rudolf Kingslake is regarded as the ...

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(Second Edition), 2010 17.8 PROGRAMS AND BOOKS USEFUL FOR AUTOMATIC LENS DESIGN The following lists of lens design programs and books are intended to provide additional material that may be helpful to the lens designer using any of the various software packages.

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