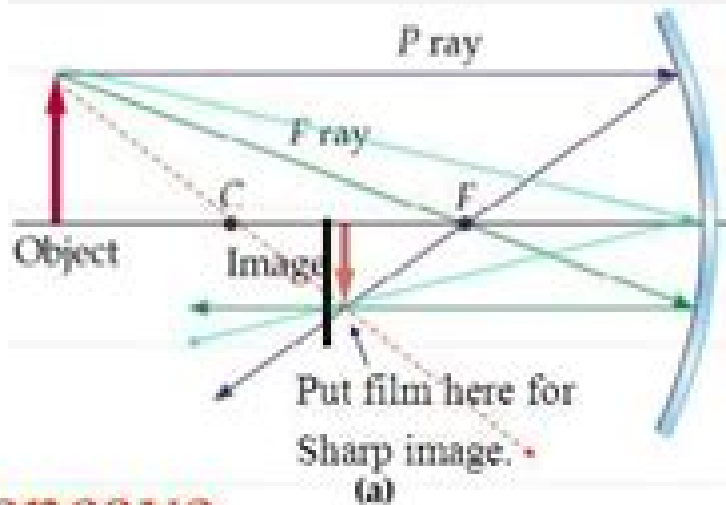
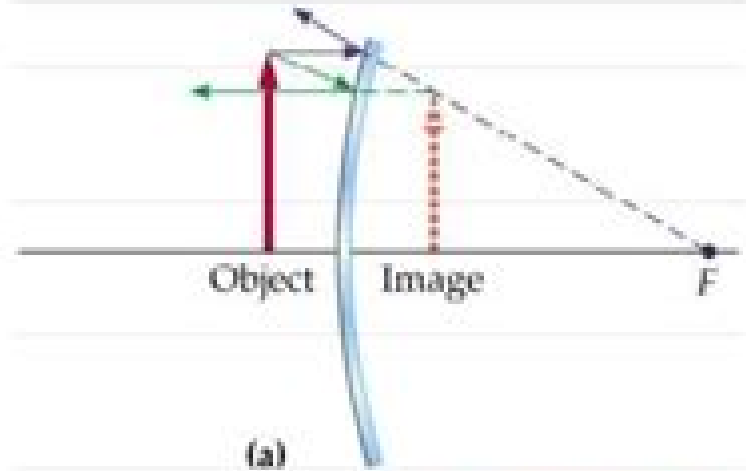


# Ray Tracing – Examples

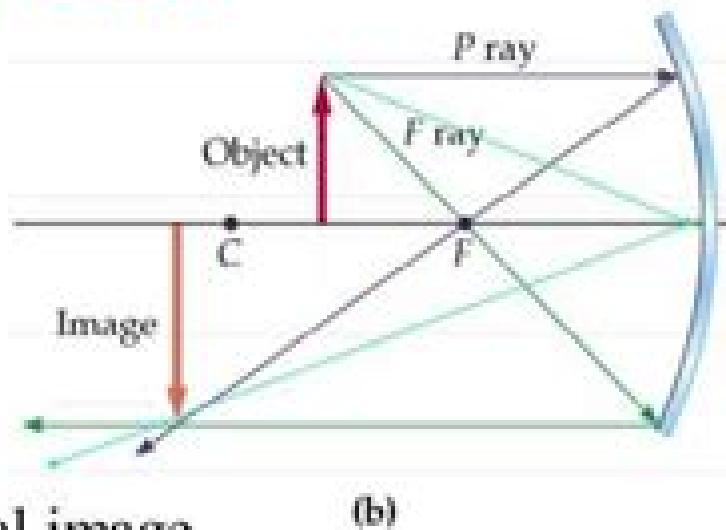


concave



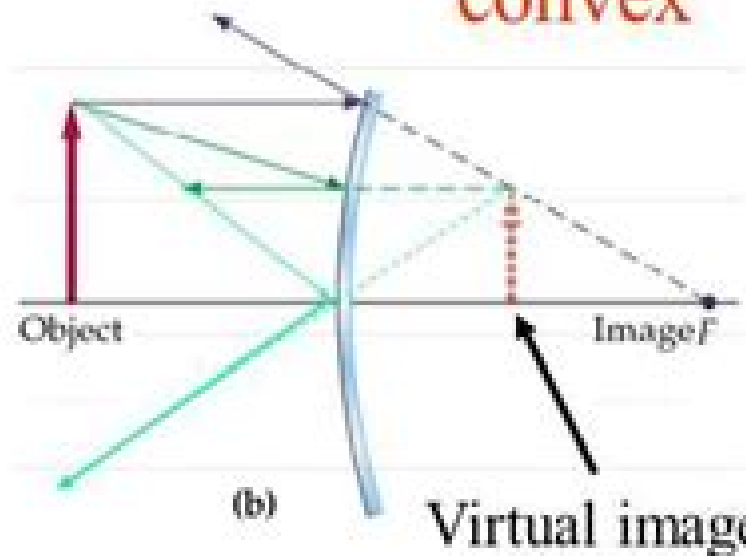
(a)

convex



(b)

Real image



(b)

Virtual image

# Gizmo Lab Ray Tracing Lenses

**Ufuk Ceyhan**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Gizmo Lab Ray Tracing Lenses:**

*A ray tracing package through a lens system and spectrometer* B. Zurro, P. W. King, E. A. Lazarus, 1980      **Ray Tracing Package Through a Lens System and a Spectrometer**, 1980 To study the light collection optics of the ISX B two dimensional 2 D Thomson scattering system we have implemented in the Oak Ridge National Laboratory ORNL Fusion Energy Division FED PDP 10 two computer programs LENS and SPECT that trace rays through a lens system and a spectrometer respectively The lens package follows the path of any kind of ray meridional or skew through a centered optical system formed by an arbitrary number of spherical surfaces The spectrometer package performs geometrical ray tracing through a Czerney Turner spectrometer and can be easily modified for studying any other configuration Contained herein is a description of the procedures followed and a listing of the computer programs      **Lens Design Fundamentals** Rudolf Kingslake, 1978-04-28 A large part of this book is devoted to a study of possible design procedures for various types of lens or mirror systems with fully worked examples of each The reader is urged to follow the logic of these examples and be sure that he understands what is happening noticing particularly how each available degree of freedom is used to control one aberration Not every type of lens has been considered of course but the design techniques illustrated here can readily be applied to the design of other more complex systems It is assumed that the reader has access to a small computer to help with the ray tracing otherwise he may find the computations so time consuming that he is liable to lose track of what he is trying to accomplish      **Properties and Applications of Generalized Ray Tracing** Steven Craig Parker, 1971      **Field Guide to Lens Design** Julie L. Bentley, Craig Olson, 2012 The process of designing lenses is both an art and a science While advances in the field over the past two centuries have done much to transform it from the former category to the latter much of the lens design process remains encapsulated in the experience and knowledge of industry veterans This SPIE Field Guide provides a working reference for practicing physicists engineers and scientists for deciphering the nuances of basic lens design      Ray Tracing Confirms the Optical Properties of the Bovine Lens are Actively Maintained by the Microcirculation System Chen Qiu, 2019 Ocular pathologies such as cataract have become increasingly common as the human population continues to age due to better healthcare As such the need for an improved understanding of the underlying causes is necessary Using a variety of Magnetic Resonance Imaging MRI modalities and optical modelling software the Molecular Vision Laboratory MVL has shown that the lens geometry and the gradient of refractive index GRIN which together determine the optical properties of the ocular lens are actively maintained by the lens microcirculation system Based on a series of experiments the MVL have proposed that monitoring the optical properties of lens could serve as a good indicator at the whole tissue level of the underlying state of the cellular physiology of the lens To investigate this hypothesis I have developed a novel laser ray tracing LRT system that allows the optical properties of isolated bovine lenses maintained in organ culture to be measured A fully automated LRT system capable of passing multiple rays at different projection angles

through bovine lenses maintained in organ culture was developed. The lens geometry was quantitatively analysed by detecting the edge of the lens using state of the art segmentation methods. Retrieval of the lens GRIN involved solving an optimization problem that is constructed from information in the ray deflections. This optimization process was aided by a set of physiologically and optically relevant constraints. These constraints included a decreasing refractive index from the lens core radially outward towards the lens surface and a homogenous index at the surface of the lens that was consistent with the lens growth rings that are formed during lens development. In some instances information of the absolute refractive index of the lens was also required. The overall lens optics determined by the product of the lens geometry and GRIN was then validated by comparing the ray trajectories computed using ray theory simulations to direct experimental trajectories extracted from the original ray tracing images. I then used this system to monitor the time course of changes to lens geometry, GRIN and power in bovine lenses organ cultured in the absence and presence of reagents known to alter the cellular physiology of the lens. Lenses cultured in Artificial Aqueous Humor (AAH) for up to four hours maintained relatively constant power, geometry and GRIN over time. In contrast, lens incubated in a high concentration of K<sup>+</sup> High K<sup>+</sup> AAH which inhibits the microcirculation system by depolarizing the lens potential exhibited a rounding in lens geometry but a decrease in GRIN which resulted in a small but significant increase in overall power. A similar effect on lens geometry, GRIN and power was observed in lenses perfused with 100% CO<sub>2</sub> which by altering lens pH closes gap junctions in the outer cortex of the lens. In contrast, incubating lenses in ouabain (1 mM) to block the Na<sup>+</sup> K<sup>+</sup> ATPase that drives the lens microcirculation caused a more pronounced rounding of lens shape, an increase in GRIN that was more prominent in the lens core relative to the outer cortex and a substantial increase in optical power. Using LRT to directly measure lens optics, I have confirmed earlier MRI experiments that showed the microcirculation system actively controls the optical properties of the lens. Furthermore, I have shown that inhibiting different components, lens potential, gap junctional conductance and Na<sup>+</sup> pump current of the lens microcirculation system differentially affects the lens optical properties.

**Characterization of Aspherical Lenses by Experimental Ray Tracing** Ufuk Ceyhan, 2013

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