

PARAXIAL

Meaning: Paraxial refers to rays or approximations that are close to the optical axis in an optical system, facilitating simplified calculations in lens design and light propagation analysis.

1. The paraxial rays in the optical system help simplify the calculations needed for lens design.
2. In physics, paraxial approximations allow for easier analysis of light propagation through lenses.
3. The paraxial region of the lens is crucial for determining the focal point accurately.
4. By focusing on paraxial optics, researchers can derive essential principles of image formation.
5. Understanding paraxial behavior is fundamental when studying complex optical instruments.

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