Optics

Yichao Yu

Journal Club

Oct. 18, 2022

Useful for > 90% of calculation.

Useful for > 90% of calculation.

Exceptions

- Focus
- Long propagation
- Diffraction optical elements e.g. gratings.

Useful for > 90% of calculation.

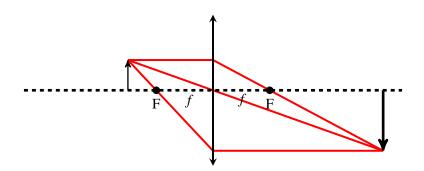
Exceptions

- Focus
- Long propagation
- Diffraction optical elements e.g. gratings.

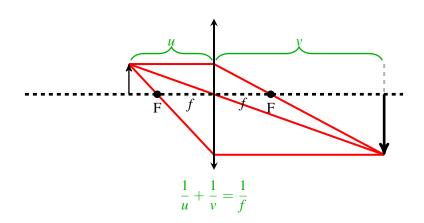
Useful for > 90% of calculation.

Exceptions

- Focus
- Long propagation
- Diffraction optical elements e.g. gratings.

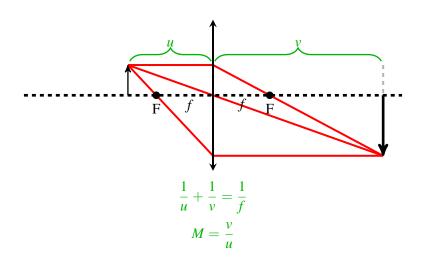


3/4

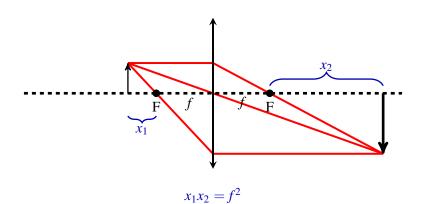


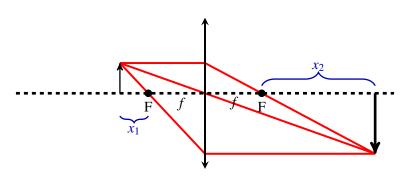
3/4

Yichao Yu (Journal Club) Optics O





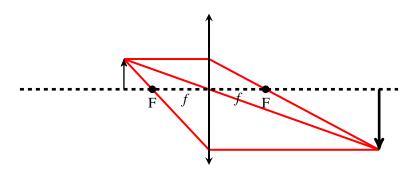




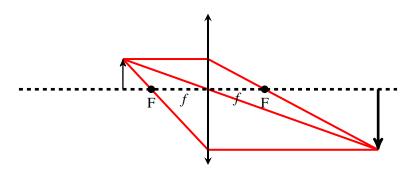
$$x_1x_2 = f^2$$

$$M = \frac{f}{x_1} = \frac{x_2}{f} = \sqrt{\frac{x_2}{x_1}}$$

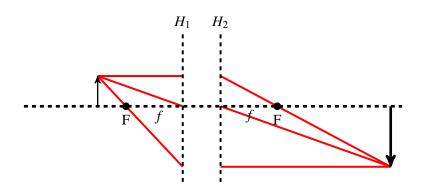


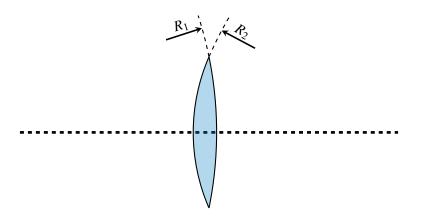


Conjugate plane: Perfect image under ray optics

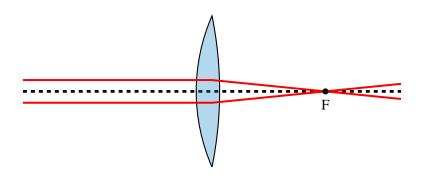


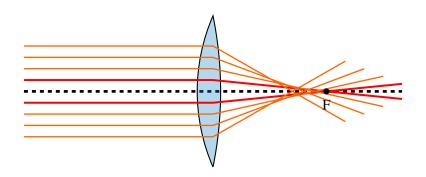
Conjugate plane: Perfect image under ray optics Principal planes: Conjugate plane where M=1





4/4





4/4

