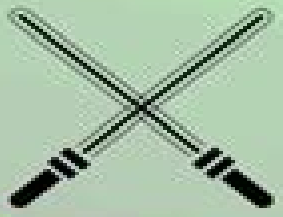
Fractional fourier transform in optics

- The Fractional Fourier transform (FrFT) is a generalization of the classic Fourier transform, extensively used in optics
- It enables the analysis of signals and fields in intermediate domains between time and frequency
- In optics, FrFT provides a powerful tool for beam shaping, pulse compression, and analyzing optical systems
- Its ability to manipulate and control the phase and amplitude of light waves enhances imaging and signal processing applications

Practical example: Lasers

- The fractional Fourier transform (FrFT) is a mathematical tool used extensively in optics, particularly in the design and operation of lasers
- By allowing for the transformation and analysis of a laser beam's field at various angles, the FrFT helps in the precise control and focusing of laser light
- This capability is crucial for applications such as laser cutting, medical surgery, and optical communication, where manipulating the direction and phase of light enhances performance and efficiency



The Fourier Transform And Its Applications To Optics

Joseph W. Goodman

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