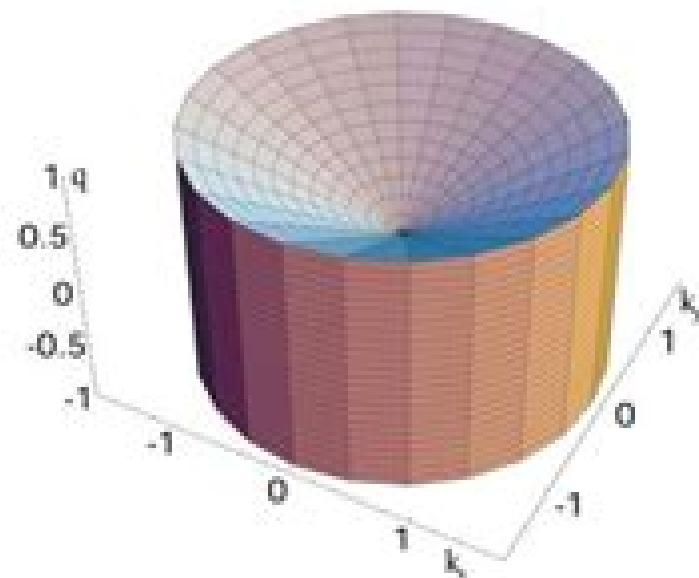
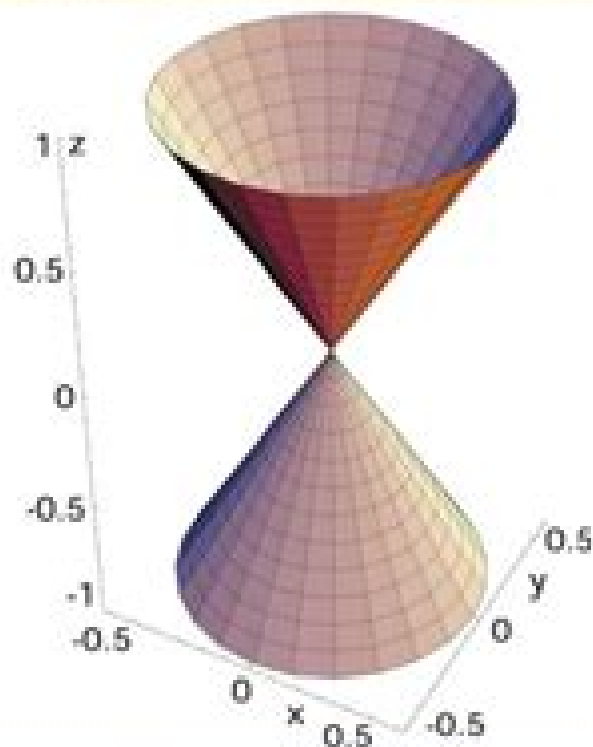


Optical Transfer Function

- Optical transfer function (OTF)
 - Fourier transform of the PSF function
 - characterizes frequencies transmitted by the optical system
 - in real optical systems OTF domain is finite (image is *band-limited*)
 - the largest transmitted frequency is called *cut-off frequency*



The Optical Transfer Function

David Dutton



The Optical Transfer Function:

Introduction to the Optical Transfer Function Charles Sumner Williams, Orville A. Becklund, 2002 This work covers spatial frequency spread function wave aberration and transfer function and how these concepts are related in an optical system how they are measured and calculated and how they may be useful

The Optical Transfer Function of Imaging Systems Thomas Williams, 1998-12-23 The Optical Transfer Function of Imaging Systems deals extensively with the theoretical concept of the optical transfer function OTF its measurement and application to imaging devices The OTF is a mathematical entity describing how well the subject is transferred into an image via the lens The book focuses on the practical aspects of using and measuring the OTF It presents the background physics necessary to understand and assess the performance of the great proliferation of electro optical systems including image intensifiers video cameras and thermal imagers Assuming a senior undergraduate level of optics knowledge the book is suitable for graduate courses in optics electro optics and photographic science In addition it is a practical guide for systems designers who require a means of assessing and specifying the performance of imaging systems It is also of interest to physicists and engineers working in all areas of imaging

The Optical Transfer Function K. R. Barnes, 1971

The Optical Transfer Function of Imaging Systems Thomas Williams, 2017 The Optical Transfer Function of Imaging Systems deals extensively with the theoretical concept of the optical transfer function OTF its measurement and application to imaging devices The OTF is a mathematical entity describing how well the subject is transferred into an image via the lens The book focuses on the practical aspects of using and measuring the OTF It presents the background physics necessary to understand and assess the performance of the great proliferation of electro optical systems including image intensifiers video cameras and thermal imagers Assuming a senior undergraduate level of optics knowledge the book is suitable for graduate courses in optics electro optics and photographic science In addition it is a practical guide for systems designers who require a means of assessing and specifying the performance of imaging systems It is also of interest to physicists and engineers working in all areas of imaging Provided by publisher

Modulation Transfer Function in Optical and Electro-optical Systems Glenn D. Boreman, 2001 This tutorial introduces the theory and applications of MTF used to specify the image quality achieved by an imaging system It covers basic linear systems theory and the relationship between impulse response resolution MTF OTF PTF and CTF Practical measurement and testing issues are discussed

Selected Papers on Optical Transfer Function Lionel R. Baker, 1992

Notes on Optical Transfer Function David Dutton, 1969

Recommendations for Measurement of the Optical Transfer Function of Optical Devices British Standards Institute Staff, British Standards Institution, 1971-11-10

Optical instruments Optical measurement Optical phenomena Transfer functions Performance testing Test equipment Accuracy Testing conditions Error correction

Selected Papers on Optical Transfer Function Lionel R. Baker, 1992

Measurement of the Optical Transfer Function H. W. Vanderbom, 1968

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