

Advanced PSF Calculation in a High-NA Lens System

Abstract



It is known that the vectorial nature of light plays a non-negligible role in high-NA focusing situations. In this example, focusing of a linearly polarized Gaussian beam by a high-NA aspheric lens is presented, and the asymmetric PSF in the focal plane is shown. By examining the electromagnetic field components in the focal plane, it can be found that the asymmetry is caused by a relatively strong E_z component.

Modeling Task



Results



Results





Asymmetry in PSF is due to the relatively strong E_z component.







Document Information

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