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Under such conditions, the distance  $z_2$  is equal to the focal length  $f$ . The equation becomes  $h_2 = \int_{-\infty}^{\infty} \exp(jk_u z_2) U_2(u) = U_1(\xi) \exp(-j u \xi d) \lambda f \lambda f - \infty$  (b) For  $z_1 \rightarrow \infty$  and  $d \rightarrow f$ , we have the object illuminated by a normally incident plane wave and situated in the front focal plane. Again  $z_2 \rightarrow f$ .

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distinction in optics (1990), and the Esther Hoffman Beller Medal of the OSA for contributions to optics education (1995). He is a Fellow of the OSA, the SPIE, and the IEEE. In 1987 he was elected to the National Academy of Engineering. In addition to Introduction to Fourier Optics, Dr. Goodman is the author of Statis-

### Introduction to Fourier Optics

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Based upon Maxwell's equations for the electromagnetic field and using modern transform mathematics, principally Fourier transform theory in the solutions, Fourier Optics is particularly well suited to the study of cascades of lenses and phase masks as are widely used in optical instruments ranging from microscopes to telescopes, i.e., linear optical systems.

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