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### Introduction To Fourier Optics Solution

particularly true for subjects that are highly mathematical, as is the subject of Introduction to Fourier Optics. However, there are many different types of problems that one could imagine. Some involve straightforward substitution into equations that have been established in the text; such problems are useful in so far as they

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Consider a scalar function  $g(x,y;t)$  with two transverse spatial coordinates and one temporal coordinate.  $g(x,y;t)e^{i2\pi(f_x x + f_y y + nt)} dx dy dt$  (9) It is a straightforward exercise to show that the inversion expression is given by Eq.  $x dy dn$  (10) This notation and sign convention is used throughout this paper.

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