2. $g_1 = f_1 + (h_2 * f_2)$
$9_2 = f_2 + (h_1 * f_1)$
Taking Fourier Transforms,
$G_1 = F_1 + H_2F_2$, $G_1 = F_2 + H_1F_1$
Solving this system of linear equations yields
$F_1 = G_1 - G_2 H_2$, $F_2 = G_2 - G_1 H_1$ $1 - H_1 H_2$ $1 - H_1 H_2$
1-H, H ₂ 1-H, H ₂
Observing the solutions it is easy to see the problem with the solution. Our solution ceases to be defined if H, H2 = 1 at any point, as the denominators in the solution become O.
H, H ₂ = 1 at any point, as the denominators in
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