	1) f, = outside scene l2 > reflection	-
1.	$9_1 = f_1 + h_2 + f_2 $ [blue f_2] $9_2 = h_1 + f_1 + f_2 $ [blue f_1]	
	Apply fourier transform	
	G, (µ) = F, (µ) + H2 (µ) F2 (µ)	
	G2(µ) = F2(µ) + H1(µ) F1(µ)	
	Eliminating F2(µ), we get	-
	Gi(µ) = Fi(µ) + H2(µ) [G2(µ) - H1(H) F1 (H)
	> F(H) = G(H) - H2(H) G2(H)	
	1- H, (M) H2 (M)	
	This gives:	
ti.	F2 (µ) = G2 (µ) - H1 (µ) F1 (µ)	
	$= G_2(\mu) - H_1(\mu)G_1(\mu) - H_1(\mu)H$	2(µ) 62(M)
	1- H1(µ)H2(µ)	
	$F_{2}(\mu) = G_{2}(\mu) - H_{1}(\mu)G_{1}(\mu)$	
	1 - H1 (M) H2 (M)	
	By taking the inverse formier transform	
.	CIDFI) we got back if, and fe	
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The only problem will be when denominators
become zeno.
1.e. H. WH2(M) = 1
This happens when
$H_{\bullet}(u) = 1$ and $H_{\bullet}(H) = 1$
Since these are used for blurking the image, they must be low pass filters.
they must be low pass filters.
b
Shi(x)dri = 1 for any a, b
-
=> H1(0) = 1; Similarly, H2(0) = 1
Hence H, (M) H2 (M) = 1 for y= 0
Thus the lower frequency components
(specially: $\mu = 0$) are not reconstructed well
To address this prome the denominator
Should be ensured non-zono.
We can add a small term (E) to the
denominators to ensure this.
The new reconstructed Images are
Fr (M) = G1 (M) - H2 (M) G2 (M)
1 - H, (H) Hz (H) + E
and F2(4) = G2(4) - M, (4) G2(4)
There are not 12 (41) H2 (41) +E
These are not exact images, because of the
coeditolia (E)M > but One
They solve the problem of F(.) shooting up
The state of the s