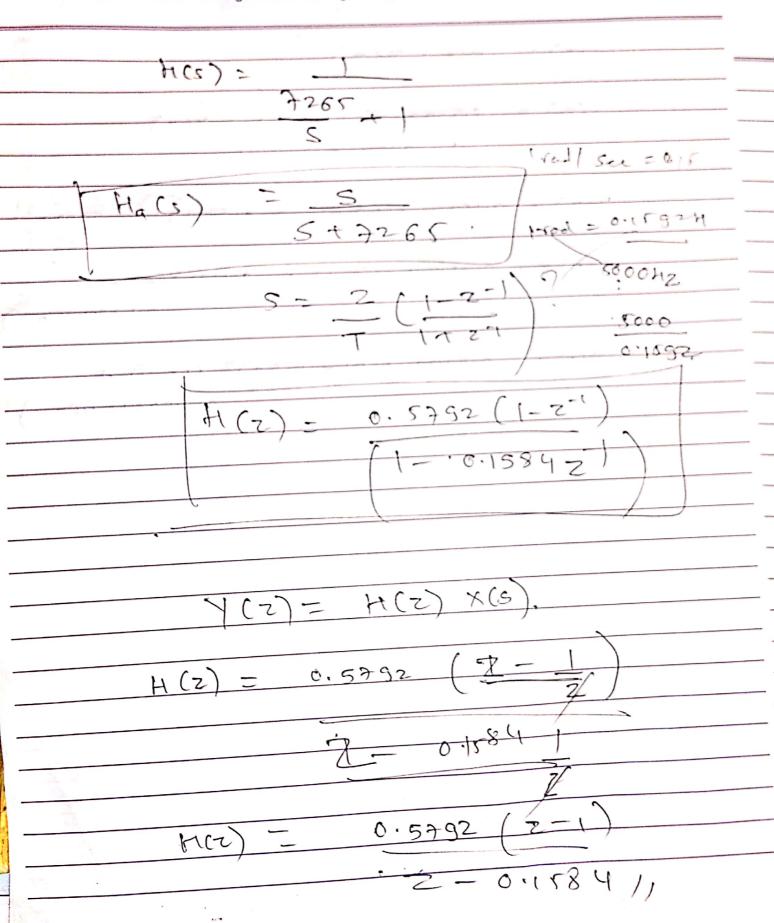


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MS = .
* Butterworth digital filter!
· 5000 HZ
Cut-Off Frequency = 1000Hz
and down lodg at 350 Hz.
$ds = 10 dB \qquad \text{(up = 2\pi \times 1000)}$
= 2000 m 8 rad sep
Ws = 211 x350 = 700 valg
7
T= 1 = 2x10 4 seconds.
£ 5000
-> pre-worping
-2p=2 tan (Wot)
= 2 tan 2000 x 2x(5)
2410'
and the second s
= 7265 rad (see



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SLP = 2236 , SLS = 7265



 $\frac{1}{2} = \frac{0.5792}{1 - 0.1584} = \frac{0.5792}{1 - 0.1584} = \frac{0.5792}{1 - 0.5792} = \frac{0.5792}{1 - 0.5$