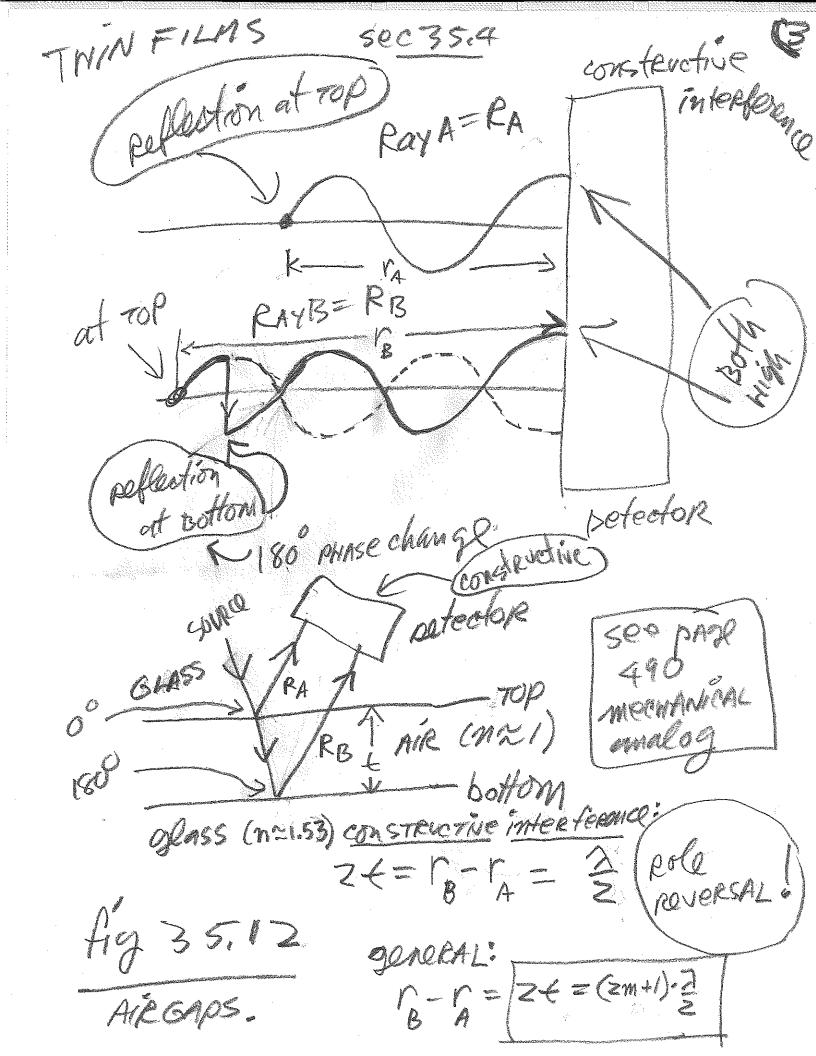
2 suit interflerence: Ar-EdsiNo 1 SCLOCK AV= () A ASIA I R R >> d / Sudan S destevetive: dame = (m+1).3

m=1 Em=0 M = 0Intensity = 3TidsiNG



Love (Crien) RICERT oil (n=1.53) water (n=1.53) RAINBOWS Cant enteur ntefferma

(5

Data Sheet THIN LENS: DETERMINATION OF f (converging lens.)

		·

1_		
do		-
	d _{obest}	
	Δd_{oinst}	
	$(d_{omax} - d_{omin})/4$	
	Δd_o (larger of previous two.)	
di		
	d _{ibest}	D E OAG
	Adi inst = trop= 172=021	05cm
	$(\mathbf{d}_{imax} - \mathbf{d}_{imin})/4 \ge \mathbb{E} RCR$	0000000
	$\begin{array}{c c} \Delta d_{i \; inst} & = & \\ \hline (d_{imax} - d_{imin})/4 & = \\ \hline \Delta d_{i \; (larger \; of \; previous \; two.)} & \\ \hline d_{ohest} * d_{ihest}/(d_{ohest} + d_{ihest}) = \\ \end{array}$	LARGEROF PREVIO
	$\mathbf{d}_{\text{obest}} * \mathbf{d}_{\text{ibest}} / (\mathbf{d}_{\text{obest}} + \mathbf{d}_{\text{ibest}}) =$	
best		
ovst		

Lab outling films

Compare fbest and face with the overall error, which gives the range, as discussed in class. Does the accepted value of f fall within the range centered at the best value? Hint: Check if $f_{min} < f_{acc} < f_{max}$, where f_{min} is the minimum possible using the values of the uncertainty and plugging into the formula by subtracting the uncertainty in the numerator and adding the uncertainty in the denominator; similar reverse logic should be used to get f_{max} : add in the numerator and subtract in the denominator. Percent error for f Theoretical magnification m = ACTUAL MAGNIFICATION m = Percent error for magnification m

