Homework-2 FEES X493

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 $\frac{\binom{nb1}{1}}{\binom{n^2}{1}^2} = 2.555947 - 9.112305e-3 \times^2 + 1.706319e-2 \times^2$ - 3.920348 e-4 x-4 + 8.8/3931e-5 x-6 - 4.2574/0e-6 x-8 (a) index at I waveligh /= 587.5618 nm = 0.5875618 mm

.. By nd = 1.6126 93

F= 486.1327nm C= 656.2725nm

(b) Dispersion across F-C bank = n\_F-nc

= 1.619979-1.602505 T= 0.610474

(c) Partal dispersion relative to D-C'.

c'=643.8467mm

 $= \frac{n_0 - n_{e'}}{n_F - n_e} = \frac{1.6126 - 1.610013}{0.016474}$ 

D = 589.2738 ns

= 0.246993

(d) Abb. De number,  $V = \frac{n_0 - 1}{n_F - n_c} = \frac{1.6126 - 1}{0.010474}$ 

= 58.49

this is a crown glass

