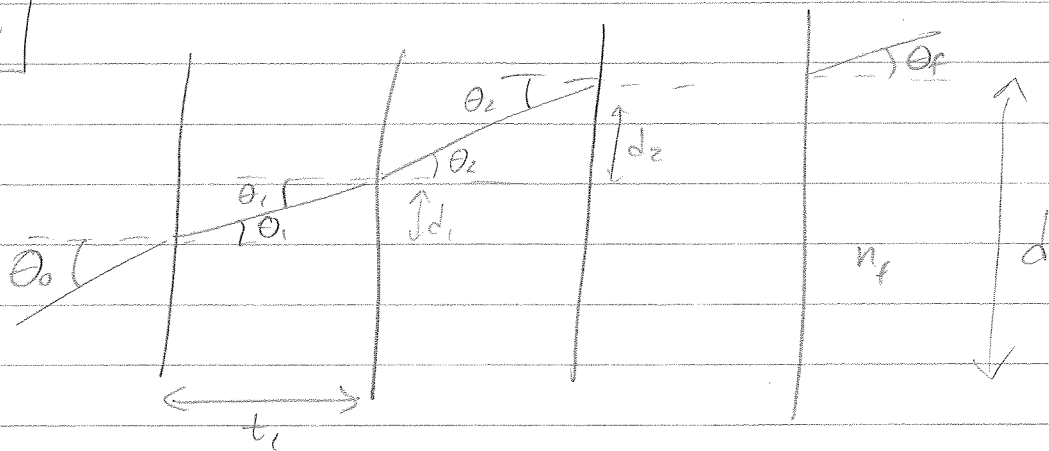


PPP

2-32

a)



- Snell  $n_0 \sin \theta_0 = n_1 \sin \theta_1$  första ytan  
 Andra ytan  $n_1 \sin \theta_1 = n_2 \sin \theta_2$   
 sista ytan  $n_{f-1} \sin \theta_{f-1} = n_f \sin \theta_f$

$\Rightarrow n_0 \sin \theta_0 = n_f \sin \theta_f$  genom induktion

b) Förskjutning i sidled

$$d = d_1 + d_2 + \dots + d_{f-1}$$

$$d_j = t_j \tan \theta_j, \dots$$

$$d = \sum_{j=1}^{f-1} t_j \tan \theta_j$$