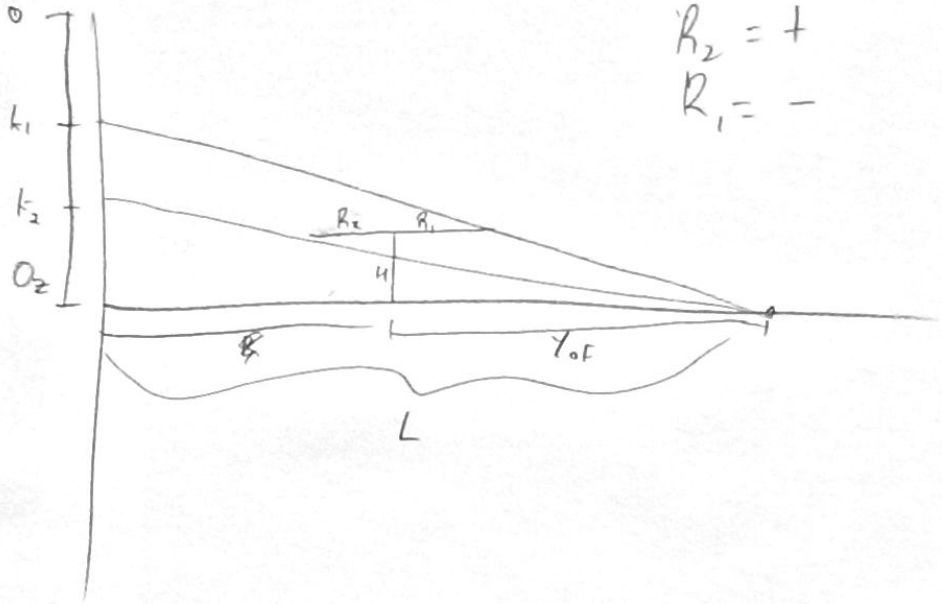


$R_2 = +$

$R_1 = -$

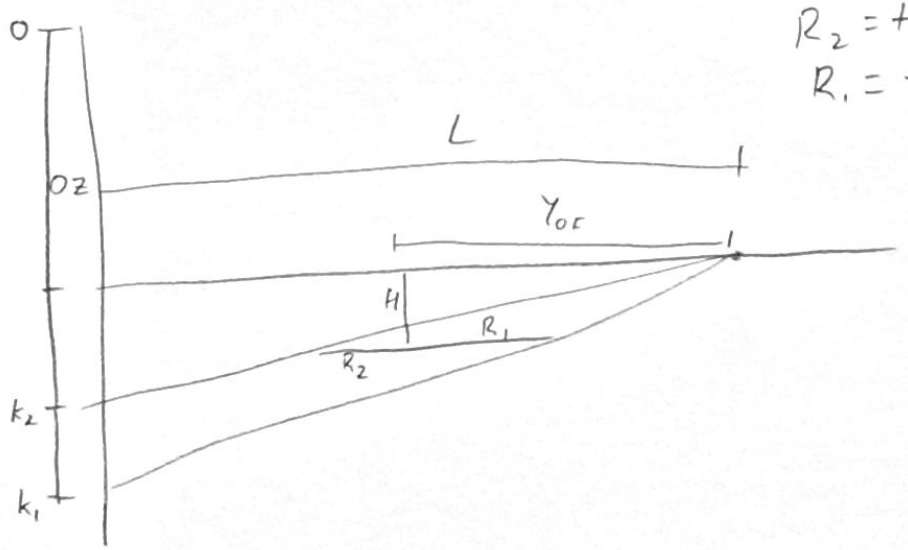
$$\frac{O_2 - k_2}{L} = \frac{H}{Y_{oF} + R_2} \qquad \frac{O_2 - k_1}{L} = \frac{H}{Y_{oF} + R_1}$$

$$\frac{O_2 - k_2}{L}(Y_{oF} + R_2) = \frac{O_2 - k_1}{L}(Y_{oF} + R_1)$$

$$O_2 Y_{oF} + O_2 R_2 - k_2 Y_{oF} - k_2 R_2 = O_2 Y_{oF} + O_2 R_1 - k_1 Y_{oF} - k_1 R_1$$

$$O_2 (Y_{oF} + R_2 - Y_{oF} - R_1) = k_2 Y_{oF} + k_2 R_2 - Y_{oF} k_1 - k_1 R_1$$

$$\boxed{O_2 = \frac{k_2 Y_{oF} + k_2 R_2 - k_1 Y_{oF} - k_1 R_1}{R_2 - R_1}}$$



$R_2 = +$

$R_1 = -$

$$\frac{k_2 - O_2}{L} = \frac{H}{Y_{oF} + R_2} \qquad \frac{k_1 - O_2}{L} = \frac{H}{Y_{oF} + R_1}$$

$$k_2 Y_{oF} + k_2 R_2 - O_2 Y_{oF} - O_2 R_2 = k_1 Y_{oF} + k_1 R_1 - O_2 Y_{oF} - O_2 R_1$$

$$O_2 (-Y_{oF} - R_2 + Y_{oF} + R_1) = k_1 Y_{oF} + k_1 R_1 - k_2 Y_{oF} - k_2 R_2$$

$$\boxed{O_2 = \frac{k_1 Y_{oF} + k_1 R_1 - k_2 Y_{oF} - k_2 R_2}{R_1 - R_2}}$$