LISTA 3 - II

quinta-feira, 18 de novembro de 2021 17:32

18) $A_{V2} = \frac{R_4}{R_1}\left(\frac{R_1 + R_2}{R_3 + R_4}\right)$

$A_{V2} = \frac{45K}{10K} \cdot \left(\frac{10K + 50K}{10K + 45K}\right)$

$A_{V2} = 4,909$

$A_{V1} = -\frac{R_2}{R_1} = -\frac{50K}{10K} = -5$

$A_d = (A_{V1} - A_{V2})/2$

$A_d = [-4,909 - 5]/2$

$\boxed{A_d = -4,954}$

$A_c = \frac{R_1.R_4 - R_2.R_3}{R_1.R_3 + R_1.R_4} = \frac{10K \times 45K - 50K \times 10K}{10K \times 10K + 10K \times 45K} = \frac{-50 \times 10^6}{100 \times 10^6 + 450 \times 10^6} =$

$A_c = -0,0909$

$CMRR = \frac{A_d}{A_c} = 54,499$ $\quad CMRR(dB) = 34,72 dB$