

rechnung_nichtinvertierender_verstaerker_eingangswiderstand

Student Group

First Name	Surname	Matrikel Nr.

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$R_E^0 = \frac{U_E}{I_p}$		
$R_E^0 = \frac{U_E}{I_p}$		mit I_p aus $R_D = \frac{U_D}{I_p}$
$R_E^0 = \frac{U_E \cdot R_D}{R_D + U_D}$		
$R_E^0 = \frac{U_E \cdot R_D}{R_D + U_D}$		mit $U_D = \frac{U_A}{A_D}$
$R_E^0 = \frac{U_E \cdot R_D}{R_D + \frac{U_A}{A_D}}$		umgeformt
$R_E^0 = \frac{U_E}{U_A} \cdot R_D \cdot A_D$		
$R_E^0 = \frac{U_E}{U_A} \cdot R_D \cdot A_D$		mit $A_V = \frac{U_E}{U_A} = \frac{R_2}{R_1 + R_2}$
$R_E^0 = \frac{1}{A_V} \cdot R_D \cdot A_D$		
$R_E^0 = \frac{A_D}{A_V} \cdot R_D$		

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