

rechnung_umkehrintegrator

Student Group

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$U_A = f(U_E)$	mit III.	
$\frac{1}{C} \int U_A dt = U_C$		$U_D = \frac{1}{A_D} \int U_A dt \rightarrow \infty$
$U_A = \frac{1}{C} \int U_D dt$	mit II. und I.	
$\frac{1}{C} \int U_D dt = U_C$		$U_C = \frac{1}{C} \int U_D dt + U_C(t_0)$
$U_A = 0$	mit V.	
$\frac{1}{C} \int U_D dt = U_C$		$U_C = \frac{1}{C} \int U_D dt + U_C(t_0)$
$U_A = -\frac{1}{C} \int U_D dt + U_C(t_0)$	mit IV.	$U_C = U_R$
$\frac{1}{C} \int U_D dt = U_C$		$U_C = U_R$
$U_A = \frac{1}{C} \int U_D dt + U_C(t_0)$	Ausklammern	
$U_A = -\frac{1}{C} \int U_D dt + U_C(t_0)$		$U_C = \frac{U_D(t_0)}{C} = U_C(t_0) = -U_{A0}$
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$	Integrationskonstante betrachten	
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$		$U_R = \frac{U_D}{R} = \frac{U_E}{R}$
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$	mit VI. und II.	
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$		
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$	Konstante vorziehen	
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$		
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$	Zeitkonstante $\tau = R \cdot C$ einfügen	
$U_A = -\frac{1}{C} \int U_D dt + U_{A0}$		
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