

rechnung_umkehrintegrator

Student Group

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$U_A = f(U_E)$	mit III.	
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = \frac{1}{C} \int U_E dt + U_{A0}$	mit II. und I.	$U_A = \frac{1}{C} \int U_E dt + U_{A0}$
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = 0 \quad - \frac{1}{C} \int U_E dt + U_{A0}$	mit V.	$U_A = \frac{1}{C} \int U_E dt + U_{A0}$
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$	mit IV.	$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = \frac{1}{C} \int U_E dt + U_{A0}$	Ausklammern	
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$	Integrationskonstante betrachten	$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
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$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$	Konstante vorziehen	
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$	Zeitkonstante $\tau = R \cdot C$ einfügen	
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$
$U_A = -\frac{1}{C} \int U_E dt + U_{A0}$		
$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$		$\frac{1}{C} \frac{dU_A}{dt} = \frac{1}{C} \frac{dU_E}{dt}$

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