

rechnung_umkehrintegrator

Student Group

First Name	Surname	Matrikel Nr.

Table of Contents

\$\;\$ \$\;\$	$U_A = f(U_E)$
\$\;\$ \$\;\$	with III.
	$U_A = \frac{1}{A_D} U_E$
\$\;\$ \$\;\$	$U_A = \frac{1}{A_D} U_E$
\$\;\$ \$\;\$	with II. and I.: $\frac{1}{A_D} U_E = \frac{1}{A_D} U_E$
	$U_A = \frac{1}{A_D} U_E$
\$\;\$ \$\;\$	$U_A = \frac{1}{A_D} U_E$
\$\;\$ \$\;\$	with V.: $\frac{1}{C} U_C = \frac{1}{C} U_C$
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	with IV.: $\frac{1}{C} U_C = \frac{1}{C} U_C$
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	Factor out
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	integration constant: $\frac{1}{C} U_C = \frac{1}{C} U_C$
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	with VI. and II.: $\frac{1}{C} U_C = \frac{1}{C} U_C$
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	move constant ahead
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	insert time constant $\tau = R \cdot C$
	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	$U_A = \frac{1}{C} U_C$
\$\;\$ \$\;\$	

[illegible]

From:

<https://wiki.mexle.te.hs-heilbronn.de/> - **MEXLE Wiki**

Permanent link:

https://wiki.mexle.te.hs-heilbronn.de/circuit_design/rechnung_umkehrintegrator?rev=1641769385

Last update: **2022/01/10 00:03**

