

temp

Student Group

| First Name | Surname | Matrikel Nr. |
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Gegeben sind folgende Gleichungen

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| $U_A = f(U, E)$ | mit III. | |
| $U_A = U \cdot D \cdot U \cdot C$ | | $U_D = \{ 1 \text{ over } A \cdot D \} \cdot \text{cdot } U \cdot A \text{ overset}{A \rightarrow \infty} \text{longrightarrow } 0$ |
| $U_A = \text{color{blue}}\{-U \cdot D\} - U \cdot C$ | mit II. und I. | $\text{color{blue}}\{U_D\} = \{ 1 \text{ over } A \cdot D \} \cdot \text{cdot } U \cdot A \text{ overset}{A \rightarrow \infty} \text{longrightarrow } 0$ |
| $U_A = \text{quad } \text{quad } 0 \text{ quad } - \text{color{blue}}\{U \cdot C\}$ | mit V. | $\text{color{blue}}\{U_C\} = \{ 1 \text{ over } C \} \cdot \text{cdot} \int_{t_0}^{t_1} I_C \cdot dt + Q_0(t_0)$ |
| $U_A = -\{ 1 \text{ over } C \} \cdot \text{cdot} \int_{t_0}^{t_1} \text{color{blue}}\{I_C\} \cdot dt + Q_0(t_0)$ | mit IV. | $\text{color{blue}}\{I_C\} = I_{RS}$ |
| $U_A = \text{color{blue}}\{-\{ 1 \text{ over } C \} \cdot \text{cdot} \int_{t_0}^{t_1} I_R \cdot dt + Q_0(t_0)\} \cdot \text{color{blue}}\{I\}$ | Ausklammern | |
| $U_A = -\{ 1 \text{ over } C \} \cdot \text{cdot} \int_{t_0}^{t_1} I_R \cdot dt - \text{color{blue}}\{Q_0(t_0) \text{ over } C\}$ | Integrationskonstante betrachten | $\text{color{blue}}\{Q_0(t_0) \text{ over } C\} = U_C(t_0) = -U_{A0}$ |
| $U_A = -\{ 1 \text{ over } C \} \cdot \text{cdot} \int_{t_0}^{t_1} \text{color{blue}}\{I_R\} \cdot dt + U_{A0}$ | mit VI. und II. | $\text{color{blue}}\{I_R\} = \{ U_R \text{ over } R \} = \{ U_E \text{ over } R \}$ |
| $U_A = -\{ 1 \text{ over } C \} \cdot \text{cdot} \int_{t_0}^{t_1} \text{color{blue}}\{1 \text{ over } R\} \cdot \text{cdot } U_E \cdot dt + U_{A0}$ | Konstante vorziehen | |
| $U_A = -\{ 1 \text{ over } R \cdot C \} \cdot \text{cdot} \int_{t_0}^{t_1} U_E \cdot dt + U_{A0}$ | | |

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