

## Übungsklausur ETT2 / PT/VAT/SBT 5504

Bearbeitungszeit 120 Minuten

– Unterlagen gestattet

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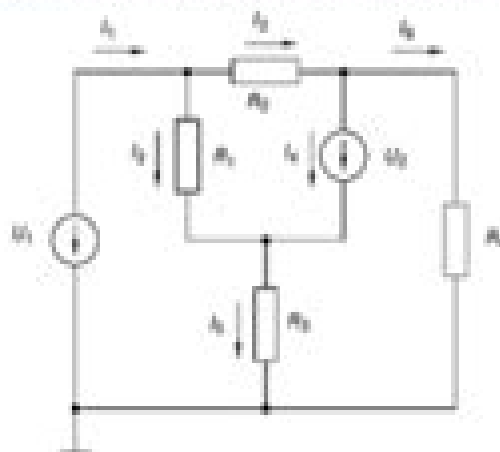
Matr. Nr.:

Note:

1	2	3	4	5	6	7
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## (1) Netzwerk

Das folgende Netzwerk soll analysiert werden (ohne tatsächliche Berechnung der Ströme).



(1.1) Zeichnen Sie einen vollständigen Baum in die Schaltung (mehrere Lösungen).

(1.2) Zeichnen Sie die sich aus dem vollständigen Baum ergebenden unabhängigen Maschen ein. Geben Sie die Maschengleichungen an.

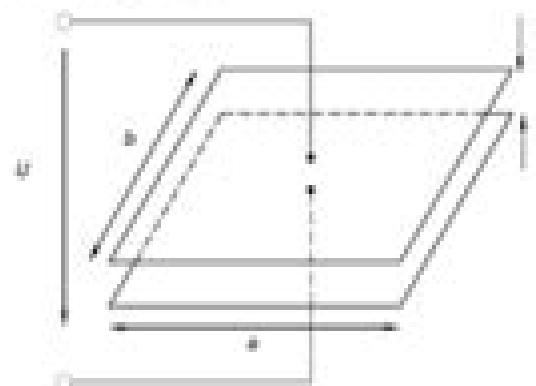
(1.3) Kennzeichnen Sie in der Schaltung alle unabhängigen Knoten. Geben die zugehörigen Knotengleichungen an.

$$(1) = 5 \quad (2) = 5 \quad (3) = 5 \quad (4) = 5 \quad (5) = 5 \quad (6) = 5 \quad (7) = 5$$

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(1.4) Wie viele unabhängige Ströme gibt es? Wie viele Gleichungen haben Sie gemäß (1.2) und (1.3)?

## (2) Elektrisches Feld und Kondensator

Die Anordnung von Metallplatten bildet einen Kondensator. Die Abmessungen seien  $a = 10\text{cm}$ ,  $b = 12\text{cm}$ ,  $d = 20\text{mm}$ .(2.1) Wie groß ist die Kapazität  $C_1$  der Anordnung?(2.2) An den Kondensator wird eine Spannungsquelle mit  $U = 100\text{V}$  angeschlossen und wieder entfernt. Welche Ladung befindet sich auf dem Kondensator?(2.3) Der Abstand der Platten wird auf  $d = 10\text{mm}$  verringert und ein Dielektrikum mit  $\epsilon_r = 10$  eingefüllt. Welchen Kapazität  $C_2$  hat der Kondensator nun?(2.4) Welche Spannung  $U'$  misst man nun an den Klammern?

## (3) Magnetisches Feld und Induktivität

Für die Anordnung des folgenden Bildes sollen magnetische Kenngrößen ermittelt werden. Die Fläche  $A = 1\text{cm}^2$  ist im Eisen und Luftspalt gleich. Die wirksame Länge des Eisens beträgt  $l_E = 20\text{cm}$ .

# Read Skript Sbt Ss04

**IM Harris**



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