Greining Rása 2021 - Heimadami (

Skil fynr tima 25/1

Dapmi 1. Gefin er rås af N Wittengdum vitramum R, R, R, -, RN

+9 0

Right Right Right Regulation Regulati

eða
$$\frac{N}{Rey} = \frac{N_1}{R_1} + \cdots + \frac{N_N}{R_N}$$

$$Rey = \left(\sum_{i=1}^{N} \frac{1}{R_i}\right)^{\frac{1}{2}}$$

b) Finnit i:, stramminn yfir i-ta nitnamit.

Notum lognoil Ohms V = Reg i A $V_1 = V_2 = \dots = V_N = V$

$$N\vec{u} \in N_i = \hat{l}_i R_i$$
 et a $\hat{l}_i = \frac{1}{R_i} v = \frac{R_{eq}}{R_i} \hat{l}_i$

c) Hrat gerist vit N & i þegu king, en þegu king? i pegar Riso a hreh i-ta ordnand iv rasiani

7 efter Stander ris med N-1 Westengd within.

ii. þeg lin fr all straumn i gegr i tr greinnge

& rèin er Steammhleypt.

c) Hrad gerist við N & i þegu kim, en þegu kim?

i. Þeger him flyndir engru straun un vissina svo hvin virler eins & open rås

ii. þeger Riso verðr ellut spennfll yfr i-tr viðninð og rásin er eins og lun innihaldi N-1 raðtugd viðnein R1, R2..., Ri-1, Ri+2,-RN

Finnit Vo sem full at Vs.

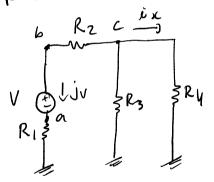
Hôfer
$$ix = \frac{V_5 - 0}{R_X + R_C}$$

Met spenmderlig fant
$$V_0 = \frac{R_L}{R_P + R_L} a i x$$

eta
$$V_0 = \frac{\alpha R_L}{R_P + R_L} \frac{1}{R_X + R_C} V_S$$

Dopui 4

Finnið in et V=12V R₁ = $\frac{1}{2}\Omega$ R₂ = 1Q R₃ = 3Q R₄ = 2R



Nota hmitpumbagrange & Gi = 1

ju er stramor inn i spenmlind

$$i_{x} = \frac{V_{c} - 0}{R_{y}} = 2\frac{2}{3}A$$