

$$\frac{V_0 - V_2}{R_2} + \frac{V_0}{R_0} = 0 \quad (\text{Eq. 4})$$

And finally:

$$V_2 = V_0 + 4 \quad (\text{Eq. 5})$$

Solving yields:

$$V_0 = 526.32 \text{ mV}$$

$$P_L = \frac{V_0^2}{R_0} = 69.25 \text{ mW}$$

### Problem 3.13

(a) For the circuit of Figure P3.13, write the node equations necessary to find voltages  $V_1$ ,  $V_2$ , and  $V_3$ . Note that  $G = 1/R =$  conductance. From the results, note the interesting form that the matrices  $[G]$  and  $[I]$  have taken in the equation  $[G][V] = [I]$  where

$$[G] = \begin{bmatrix} g_{11} & g_{12} & g_{13} & \cdots & g_{1n} \\ g_{21} & g_{22} & \cdots & \cdots & g_{2n} \\ g_{31} & \cdots & g_{33} & \cdots & g_{3n} \\ \vdots & \vdots & \vdots & \ddots & \vdots \\ g_{n1} & g_{n2} & \cdots & \cdots & g_{nn} \end{bmatrix} \quad \text{and} \quad [I] = \begin{bmatrix} I_1 \\ I_2 \\ \vdots \\ I_n \end{bmatrix}$$

(b) Write the matrix form of the node voltage equations again, using the following formulas:  
 $g_{ii} = \Sigma$  conductances connected to node  $i$   
 $g_{ij} = -\Sigma$  conductances shared by nodes  $i$  and  $j$   
 $I_i = \Sigma$  all source currents into node  $i$ .

#### Solution:

#### Known quantities:

Circuit shown in Figure P3.13.

#### Find:

- Voltages
- Write down the equations in matrix form.

#### Analysis:

a) Using conductances, apply KCL at node 1:

$$(G_1 + G_{12} + G_{13})V_1 - G_{12}V_2 - G_{13}V_3 = I_s$$

Then apply KCL at node 2:

$$-G_{12}V_1 + (G_2 + G_{12} + G_{23})V_2 - G_{23}V_3 = 0$$

and at node 3:

$$-G_{13}V_1 - G_{23}V_2 + (G_3 + G_{13} + G_{23})V_3 = 0$$

Rewriting in the form

$$[G][V] = [I]$$

3.11



# Principles Of Electrical Engineering Rizzoni Solutions

**Giorgio Rizzoni**



## **Principles Of Electrical Engineering Rizzoni Solutions :**

*Select Material from Principles and Applications of Electrical Engineering for Michigan Technological University /*  
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**System Dynamics** Ernest Doebelin,1998-02-10 Addressing topics from system elements and simple first and second order systems to complex lumped and distributed parameter models of practical machines and processes this work details the utility of systems dynamics for the analysis and design of mechanical fluid thermal and mixed engineering systems It emphasizes digital simulation and integrates frequency response methods throughout College or university bookshops may order five or more copies at a special student price available on request      **Engineering Embedded Systems** Peter Hintenaus,2014-10-30 This is a textbook for graduate and final year undergraduate computer science and electrical engineering students interested in the hardware and software aspects of embedded and cyberphysical systems design It is comprehensive and self contained covering everything from the basics to case study implementation Emphasis is placed on the physical nature of the problem domain and of the devices used The reader is assumed to be familiar on a theoretical level with mathematical tools like ordinary differential equation and Fourier transforms In this book these tools will be put to practical use Engineering Embedded Systems begins by addressing basic material on signals and systems before introducing to electronics Treatment of digital electronics accentuating synchronous circuits and including high speed effects proceeds to micro controllers digital signal processors and programmable logic Peripheral units and decentralized networks are given due weight The properties of analog circuits and devices like filters and data converters are covered to the extent desirable by a systems architect The handling of individual elements concludes with power supplies including regulators and converters The final section of the text is composed of four case studies electric drive control permanent magnet synchronous motors in particular lock in amplification with measurement circuits for weight and torque and moisture design of a simple continuous wave radar that can be operated to measure speed and distance and design of a Fourier transform

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