

## Example 3.13

### Problem 13-1: Node-Voltage Method

**Problem 13-1** Apply node-voltage analysis to find the node voltage  $V$  in the circuit in Fig. P13-1. Use the information in Subproblem 13-1(a).



**Subproblem 13-1(a)** Assume  $V = 0$  volts.

$$\begin{aligned} \frac{10 - 0}{20} + \frac{0}{10} + \frac{0 - 0}{20} &= 0 \\ \Rightarrow \left( \frac{1}{2} + \frac{0}{10} + \frac{0}{2} \right) &= \frac{0}{20} = 0 \end{aligned}$$

**Subproblem 13-1(b)** The

$$V = \frac{10 - 0}{20} = \frac{1000}{2000} = 0.5 \text{ V}$$

# Circuits Fawwaz T Ulaby Solutions

**Fawwaz Tayssir Ulaby, Michel M.  
Maharbiz**



## **Circuits Fawwaz T Ulaby Solutions:**

Circuits Fawwaz Tayssir Ulaby, Michel M. Maharbiz, 2010      *Scientific and Technical Aerospace Reports*, 1987

**Circuits** Fawwaz Tayssir Ulaby, Michel M. Maharbiz, Cynthia M. Furse, 2016      Engineering Electromagnetics Explained

Lakshman Kalyan, 2025-02-20 Engineering Electromagnetics Explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics. Written by leading experts, this book covers fundamental concepts, theoretical frameworks, and practical applications in engineering. We start with basic principles of electromagnetism, including Coulomb's Law, Gauss's Law, and Maxwell's Equations, then delve into advanced topics such as electromagnetic waves, transmission lines, waveguides, antennas, and electromagnetic compatibility (EMC). Key features include clear and concise explanations of fundamental electromagnetics concepts, numerous examples and illustrations to aid understanding, practical applications and real-world examples demonstrating electromagnetics relevance in engineering, comprehensive coverage of topics including transmission lines, waveguides, antennas, and EMC, end-of-chapter problems and exercises to reinforce learning. This textbook is suitable for undergraduate and graduate students in electrical engineering, electronics, and communication engineering, and related disciplines. It serves as an essential resource for courses on electromagnetics, electromagnetic field theory, and electromagnetic compatibility. Additionally, practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work.

**Electronics Now**, 1999      **Encyclopedia of Physical Science and Technology**, 1992      Microwave Remote Sensing

Fawwaz T. Ulaby, Richard K. Moore, Adrian K. Fung, 1990      *Solutions manual, circuit analysis* John R. Circuit analysis.

*Solutions manual* O'Malley, 1980

**Second International Workshop on Retrieval of Bio- & Geo-physical Parameters from SAR Data for Land Applications** Maurice Borgeaud, European Space Agency, T. D. Guyenne, 1998      **Index to IEEE Publications** Institute of Electrical and Electronics Engineers, 1980. Issues for 1973 cover the entire IEEE technical

literature      **Index to IEEE Periodicals**, 1971      Számítógépek alapjai Szász A. András, 2015. A számítógépek alapjai című könyv a legegyszerűbben és legértékesebben tekinti a számítógépek elvi felépítésének alapelveit figyelembe véve az alkalmazott korszerű megoldásokat. Hasznos információkat látnak benne az elektronikai számítástechnikai és automatizálási szakmáknak a technikusok valamint informatikusok számára azok akik a számítástechnikai eszközök fejlesztésével gyártásval és felhasználással foglalkoznak. Ugyanakkor tanulóknak is felhasználható a technikusok felsőfokozott szakpályáján és az egyetemi alapképzés mesterszakpályáján. A számítógépek alapjai című könyv számítástechnika hardverjellegmunka szaknyelv. Az általános bevezető után a fixpontos és a lebegőpontos műveletvégzéséről és az egységesített tárgyalja majd a számítógépek hálózatos mikroprogramozott vezérlésére vonatkozó ismereteket foglalja össze. Ezt követi a memóriák és a memóriakezelés bemutatása a jellegzetes szuperskaláris többletszámítógépes processzorarchitektúrákat tekintve és a perifériák és azoknak a kiegészítői tárgyalása. Következnek a perifériák általános bevezetője és a kiviteli eszközök és a számítógépes hálózatok az

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Circuits Solutions Manual James William Nilsson,Susan A. Riedel,2000-12-15      Subject Guide to Books in Print ,1993  
    Electric Circuit Analysis David E. Johnson,John L. Hilburn,Johnny Ray Johnson,1989      *Basic Circuit Analysis*  
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