

Example 10.10

Problem 10.10: Super-Nodal Method

Problem 10.10: Apply nodal analysis to find the node voltage V_1 in the circuit in Fig. 10.10. Use the super-nodal technique.



Solution: Applying KCL at the nodes in Fig. 10.10 gives

$$\begin{aligned} \frac{V_1 - 10}{2} + \frac{V_1 - 10}{4} + \frac{V_1 - 10}{2} &= 0 \\ \Rightarrow \left(\frac{1}{2} + \frac{1}{4} + \frac{1}{2}\right)V_1 - \frac{10}{2} - \frac{10}{4} - \frac{10}{2} &= 0 \\ \Rightarrow V_1 - 10 &= 0 \end{aligned}$$

The circuit is redrawn as

$$V_1 = \frac{10}{1} = 10 \text{ V} \quad \text{or} \quad \frac{1000}{100} = 10 \text{ V} \quad \square$$

Circuits Fawwaz Ulaby Solutions

Szász A. András



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Circuits Fawwaz Tayssir Ulaby, Michel M. Maharbiz, 2010 **Electronics Now** ,1999 **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.

Scientific and Technical Aerospace Reports ,1987 **Circuits** Fawwaz Tayssir Ulaby, Michel M. Maharbiz, Cynthia M. Furse, 2016 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 láthatunk benne az elektronikai számítéstechnikai és automatizálási szakmáknak a technikusok, valamint informatikusok számára, akik a számítéstechnikai eszközök fejlesztésével, gyártásával, javításával, valamint a foglalkozásukkal. Ugyanakkor tanulóknak is felhasználható a technikusok felsőfokozott szakpályáján, valamint az egyetemi alapképzésben. A számítógépek alapjai című könyv számítéstechnika hardverjéről, jellemző szaknyelvről, az általános bevezetés után a fixpontos és a lebegőpontos műveletekről, valamint a műveletek egységeket tárgyalja, majd a számítógépek huzalozott és mikroprogramozott vezérlésére vonatkozó ismereteket foglalja össze. Ezt követően a memóriák és a memóriakezelés bemutatása a jellegzetes szuperskaláris és a szupermagos processzorarchitektúrákat tekintse, valamint a perifériákkal kapcsolatos kiegészítő tárgyalás. Következnek a perifériák a hálózati beviteli és a kiviteli eszközök, valamint a számítógépes hálózatok az OSI modell alapján. Az ismertetés a számítógépes táplálási rendszereivel zárul.

Encyclopedia of Physical Science and Technology ,1992 Microwave Remote Sensing Fawwaz T. Ulaby, Richard K. Moore, Adrian K. Fung, 1990 **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 Microwave Remote Sensing Fawwaz Tayssir Ulaby, Richard K. Moore, Adrian K. Fung, 1981 Monumental as a compilation of the present engineering state of the art of

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