

Circuit analysis practice problems

1. Using KVL and KCL, determine the unknown currents I_C , I_D and the unknown voltages V_B and V_D in the circuit given in Fig.1.



Figure 1: Practice problem

2. Using series/parallel rule, determine the current I in Fig.2.



Figure 2: Practice problem

3. Using branch current method, determine the unknown currents I_1 , I_2 and I_3 in the circuit given in Fig.3.



Figure 3: Practice problem

Circuit Analysis Questions And Answers

Jim Jenneson, Bob Harper



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NETWORK ANALYSIS AND SYNTHESIS KUMAR, A. ANAND, 2019-01-01 This comprehensive text on Network Analysis and Synthesis is designed for undergraduate students of Electronics and Communication Engineering Electrical and Electronics Engineering Electronics and Instrumentation Engineering Electronics and Computer Engineering and Biomedical Engineering The book will also be useful to AMIE and IETE students Written with student centered pedagogically driven approach the text provides a self centered introduction to the theory of network analysis and synthesis Striking a balance between theory and practice it covers topics ranging from circuit elements and Kirchhoff's laws network theorems loop and node analysis of dc and ac circuits resonance transients coupled circuits three phase circuits graph theory Fourier and Laplace analysis Filters attenuators and equalizers to network synthesis All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way

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Power System Analysis Operation and Control Debashisha Jena, B. Rajanarayan Prusty, 2014-01-01 Power System Analysis Operation and Control is designed to serve as a basic text for B Tech and M Tech students of Electrical Engineering The topics are explained in a clear and systematic manner The book has a wealth of useful figures graphs and block diagrams to help students A number of conceptual deliberations have been included to offer more comprehensive understanding of different topics Many solved problems have been included to clarify the theoretical concepts and illustrate good problem solving methodologies Extensive short questions and answers are given at the end of each chapter to enable the student to prepare for the examinations systematically Objective type multiple choice questions are included at the end of each chapter to enable the student to build a clear understanding of the subject matter discussed in the text MATLAB programming code is developed extensively for important power system analyses and solution of complex problems which will help the students to try out more problems as

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Operational Circuit Analysis
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This book contains 255 problems their solutions The problems are practical encompass diverse areas within the field of electrical engineering The problem solving is made easy through a simple short cut explanatory approach The questions are

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