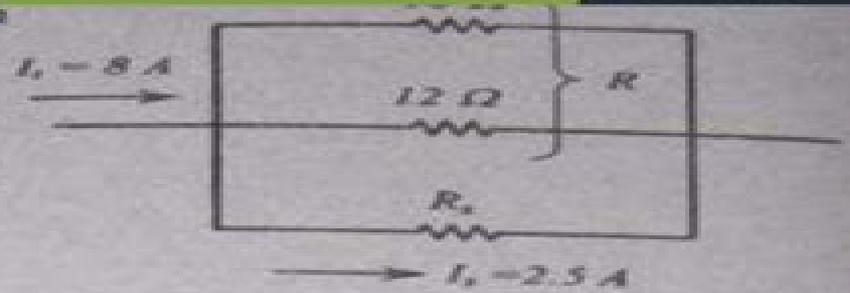


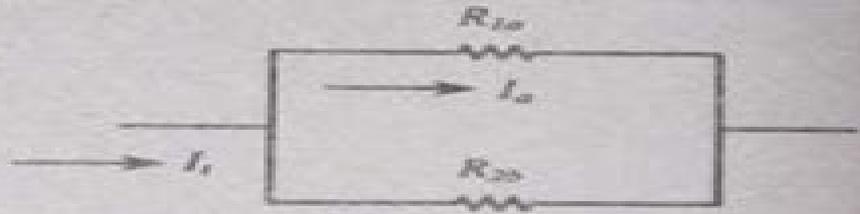
54  $R = \frac{R_1 R_2}{R_1 + R_2} = \frac{10(12)}{10 + 12} = 5.45 \Omega$   
 By CDT:  
 $I_2 = \frac{I_1 R}{R_2 + R}$   
 $R_2 = \frac{I_1 R}{I_2} - R = \frac{8(5.45)}{2.5} - 5.45 = 5.45$   
 $R_2 = 12 \Omega$



55 At  $100^\circ C$ :  
 $R_{20} = R_{10}(1 + \alpha_a \Delta t) = R_{10}[1 + 0.004(100 - 20)] = 1.32 R_{10}$   
 $R_{20} = R_{10}(1 + \alpha_b \Delta t) = R_{10}[1 + 0.006(100 - 20)] = 1.48 R_{10}$

Note: Since they draw equal currents at  $20^\circ C$ , then  $R_{10} = R_{15} = R$   
 By CDT:

$I_2 = \frac{I_1 (1.48R)}{1.32R + 1.48R} = 0.5286 I_1$   
 $I_2 = 52.86\% \text{ of } I_1$

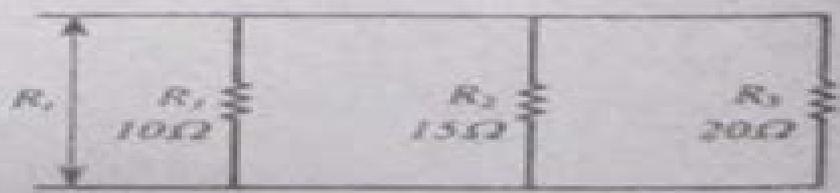


56 At  $100^\circ C$ :  
 $R_{20} = R_{10}(1 + \alpha_a \Delta t) = R_{10}[1 + 0.003(60 - 15)] = 1.135 R_{10}$   
 $R_{20} = R_{10}(1 + \alpha_b \Delta t) = R_{10}[1 + 0.005(60 - 15)] = 1.225 R_{10}$

Note: Since they draw equal powers at  $15^\circ C$ , then  $R_{10} = R_{15} = R$

$P_a = \frac{E^2}{R_{20}}; P_b = \frac{E^2}{R_{20}}$   
 $\frac{P_b}{P_a} = \frac{R_{20}}{R_{20}} = \frac{1.135 R}{1.225 R} = 0.926$

57  $G_1 = \frac{1}{R_1}$   
 $\frac{1}{R_1} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$   
 $G_1 = \frac{1}{10} + \frac{1}{15} + \frac{1}{20}$   
 $G_1 = 0.2167 \text{ mho}$



# Electrical Engineering Problems And Solutions

**James H. Bentley**



## **Electrical Engineering Problems And Solutions:**

**Electrical Engineering Problems and Solutions** Lincoln D. Jones,2003-09 This companion volume to Electrical Engineering License Review presents the main book s end of chapter problems with detailed step by step solutions A sample exam also with step by step solutions is included 100% problems and solutions *Electrical Engineering Problems* Frank Atkinson Benson,1961 350 Solved Electrical Engineering Problems Edward Karalis,2004 This collection of solved electrical engineering problems should help you review for the Fundamentals of Engineering FE and Principles and Practice PE exams With this guide you ll hone your skills as well as your understanding of both fundamental and more difficult topics 100% problems and step by step solutions **Electric Circuit Problems with Solutions** F. A. Benson,2012-12-06 Electrical engineering and electronic engineering students have frequently to resolve and simplify quite complex circuits in order to understand them or to obtain numerical results and a sound knowledge of basic circuit theory is therefore essential The author is very much in favour of tutorials and the solving of problems as a method of education Experience shows that many engineering students encounter difficulties when they first apply their theoretical knowledge to practical problems Over a period of about twenty years the author has collected a large number of problems on electric circuits while giving lectures to students attending the first two post intermediate years of Uni versity engineering courses The purpose of this book is to present these problems a total of 365 together with many solutions some problems with answers given at the end of each Chapter are left as student exercises in the hope that they will prove of value to other teachers and students Solutions are separated from the problems so that they will not be seen by accident The answer is given at the end of each problem however for convenience Parts of the book are based on the author s previous work *Electrical Engineering Problems with Solutions* which was published in 1954 Electrical Engineering Problems and Solutions, Eighth Edition Lincoln D. Jones,1999 **Electrical Engineering** Lincoln D. Jones,2005 *Electrical Engineer's Note Book* ,1935 *Electrical Engineering License Problems and Solutions* Lincoln D. Jones,1995 **Electrical Engineering Problems** William Glendinning,1958 **Solutions to Electrical Engineering Problems** William Glendinning,1946 **Electrical Engineering** Thomas Frederick Wall,1947 *Electrical Engineering Problems* William Glendinning,1967 **Electrical Power Systems Engineering** Alvin H. Knable,1967 **Electrical Engineering 360 Problems & Solutions for the PE Exam** Edward Karalis,2007-12-15 *Electrical Engineering 360 Problems Solutions for the PE Exam 2nd Edition* provides plentiful problems and detailed solutions for common electrical engineering problems in seven major topic categories Useful for both the PE and FE exams this valuable resource provides practice in understanding both fundamental and advanced electrical engineering topics Features Comprehensive review of topic Appendix of electrical engineering quantities and commonly used mathematical equations Contains SI units PE Electrical Engineering Edward Karalis,2004-04 This volume offers extensive problem solving practice in seven major subtopics of electrical engineering Even though this book is tailored

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