

14.1 Find the input impedance  $Z(s)$  of the network in Fig. P14.1.

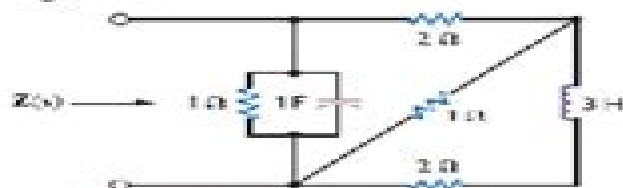


Figure P14.1  
Find  $Z(s)$  at  $s = 1$ .

**SOLUTION:**



$$Z_1 = 2 + 3s \, \Omega$$

$$Z_2 = \frac{Z_1}{1 + sZ_1} = \frac{3s + 2}{s^2 + s}$$

$$Z_3 = 2 + Z_2 = 2 + \frac{3s + 2}{s^2 + s} = \frac{9s + 8}{s^2 + s}$$

$$Z(s) = \frac{1}{\frac{1}{1 + s} + \frac{1}{Z_3}} = 1 + s + \frac{1}{Z_3} = 1 + s + \frac{3s + 2}{s^2 + s} = \frac{9s^2 + 20s + 11}{s^2 + s}$$

$$Z(s) = \frac{9s + 8}{s^2 + s}$$

$$\text{At } s = 1, \quad Z(1) = \frac{17}{20} = 0.85$$

$$Z(1) = 0.85 \, \Omega$$

# Irwin Basic Engineering Circuit Analysis 9 E Chapter 9

**L Reisser**



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**Basic Engineering Circuit Analysis Student Problem Supplement** J. David Irwin, 1989 **Introduction to PSpice Using OrCAD for Circuits and Electronics** M. H. Rashid, 2004 This book uses a top down approach to introduce readers to the SPICE simulator It begins by describing techniques for simulating circuits then presents the various SPICE and OrCAD commands and their applications to electrical and electronic circuits Lavishly illustrated this new edition includes even more hands on exercises suggestions sample problems and circuit models of actual devices It is an ideal supplement for courses in electric or electronic circuitry and is also a solid professional reference BOOK JACKET Title Summary field provided by Blackwell North America Inc All Rights Reserved

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*Measurements* Robert A. Witte, 2001 This book covers the theory and practice of spectrum and network measurements in electronic systems Areas covered include decibels Fourier analysis FFT and swept analyzers modulated signals signal distortion noise pulsed waveforms averaging and filtering transmission lines and measurement connection techniques two port network theory network analyzers and instrument performance and specifications Noble Publishing has reprinted the 1993 volume from Prentice Hall as a classic in the field Witte works for Agilent Rechnologies c Book News Inc *Choice*, 1984 *American Book Publishing Record*, 1999 *Electronics World*, 2005 Forthcoming Books Rose Arny, 1990

**Process Control and Automation**, 1962 Proceedings, 1966 **Control**, 1965 **Engineering Journal**, 1948

**Whitaker's Books in Print** ,1998      *Books in Series, 1876-1949* R.R. Bowker Company,1982      **Package for Brief Circuits Analysis and 7th Edition** J. David Irwin,2003-08-05 A concise introduction to circuit analysis designed to meet the needs of faculty who want to teach this material in a one semester course Chapters have been carefully selected from Irwin Basic Engineering Circuit Analysis 7th Edition Chapter selection covers all the necessary topics for a basic understanding of circuit analysis Op Amp coverage is integrated throughout when appropriate in chapters 3 4 5 and 8 This brief text offers students the most accessible and proven presentation of any circuit analysis text available Through real world examples and reader friendly explanations students will be motivated to learn this topic Practice makes perfect With the inclusion of many example problems to the Applications sections throughout the text and the availability of eGrade an on line quizzing function students will have the opportunity to practice practice practice that is until they get it right Are you concerned with how well your students are grasping concepts Special Exercises and drill problems help students assess proper problem solving techniques needed to solve chapter problems Options are always available Irwin offers a variety of end of chapter problems that range from basic to advanced Basic problems which graduate in difficulty are further subdivided and referenced to chapter subsections while the more advanced problems require the use of multiple techniques with no assistance Also included are problems which students would typically find on the FE Exam NEW Web based learning Circuit Solutions is an innovative web based learning site available in conjunction with this text Students walk through carefully produced solutions to select end of chapter problems one step at a time The site illustrates the necessary concepts that should be applied when solving each problem Important theories and definitions are highlighted throughout the program solidifying the key concepts taught in the book      *Electrical Engineering* ,1958      *Government Reports Announcements* ,1971-11      **Subject Guide to Books in Print** ,1993

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