

# Chap 1 Problem Solutions

- 1.1 If  $v = 141.4 \sin(\omega t + 30^\circ)$  V and  $i = 11.31 \cos(\omega t - 30^\circ)$  A, find for each (a) the maximum value, (b) the rms value and (c) the phasor expression in polar and rectangular form if voltage is the "reference". Is the circuit inductive or capacitive?

Solution:

(a) Maximum values:

$$V_{\max} = 141.4 \text{ V}$$

$$I_{\max} = 11.31 \text{ A}$$

(b) rms values:

$$|V| = \frac{141.4}{\sqrt{2}} = 100 \text{ V}$$

$$|I| = \frac{11.31}{\sqrt{2}} = 8 \text{ A}$$

(c) Phasor expressions in polar and rectangular form:

$$V = 100 \angle 0^\circ = 100 + j0 \text{ V}$$

$$I = 8 \angle -30^\circ = 6.93 - j4 \text{ A}$$

The circuit is inductive as  $I$  lags  $V$ .

- 1.2 If the circuit of Prob. 1.1 consists of a purely resistive and a purely reactive element, find  $R$  and  $X$ , (a) if the elements are in series and (b) if the elements are in parallel.

Solution:

(a) Elements in series:

$$Z = \frac{100 \angle 0^\circ}{8 \angle -30^\circ} = 12.5 \angle 30^\circ \Omega = 10.83 + j6.25 \Omega$$

$$R = 10.83 \Omega \quad X_L = 6.25 \Omega$$

(b) Elements in parallel:

$$Y = \frac{1}{Z} = \frac{1}{12.5 \angle 30^\circ} = 0.08 \angle -30^\circ = 0.0693 - j0.04$$

$$R = \frac{1}{0.0693} = 14.43 \Omega \quad X_C = \frac{1}{0.04} = 25 \Omega$$

$$Y = \frac{1}{Z} = \frac{1}{R + jX} = G + jB$$

Note:  $R \neq \frac{1}{G}$ ;  $X \neq \frac{1}{B}$

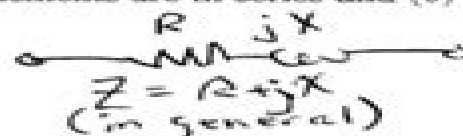
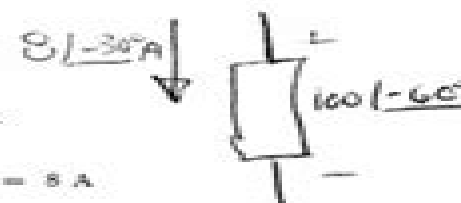
- 1.3 In a single-phase circuit  $V_a = 120 \angle 45^\circ$  V and  $V_b = 100 \angle -15^\circ$  V with respect to a reference node  $\phi$ . Find  $V_{ba}$  in polar form.

Solution:

$$V_{ba} = V_{b\phi} - V_{a\phi}$$

$$V_{ba} = 100 \angle -15^\circ - 120 \angle 45^\circ = 96.59 - j25.88 - (84.85 + j84.85)$$

$$= 11.74 - j110.73 = 111.35 \angle -83.95^\circ \text{ V}$$



# Electrical Power System By Stevenson Solution Manual

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## **Electrical Power System By Stevenson Solution Manual:**

**Power Quality in Power Systems, Electrical Machines, and Power-Electronic Drives** Ewald F. Fuchs, Mohammad A. S. Masoum, 2023-02-13 Power Quality in Power Systems Electrical Machines and Power Electronic Drives uses current research and engineering practices guidelines standards and regulations for engineering professionals and students interested in solving power quality problems in a cost effective reliable and safe manner within the context of renewable energy systems The book contains chapters that address power quality across diverse facets of electric energy engineering including AC and DC transmission and distribution lines end user applications such as electric machines transformers inductors capacitors wind power and photovoltaic power plants and variable speed variable torque power electronic drives The book covers nonsinusoidal waveshapes voltage disturbances harmonic losses aging and lifetime reductions single time events such as voltage dips and the effects of variable speed drives controlled by PWM converters The book also reviews a corpus of techniques to mitigate power quality problems such as the optimal design of renewable energy storage devices including lithium ion batteries and fuel cells for automobiles serving as energy storage and the optimal design of nonlinear loads for simultaneous efficiency and power quality Provides theoretical and practical insights into power quality problems related to future smart grid renewable hybrid electric power systems electric machines and variable speed variable torque power electronic drives Contains a highly varied corpus of practical applications drawn from current international practice Designed as a self study tool with end of chapter problems and solutions designed to build understanding Includes very highly referenced chapters that enable readers to save time and money in the research discovery process for critical research articles regulatory standards and guidelines *American Book Publishing Record* ,1984-04 **Power System Protection and Relaying** Samir I. Abood, John Fuller, 2023-09-29 This textbook provides an excellent focus on the advanced topics of the power system protection philosophy and gives exciting analysis methods and a cover of the important applications in the power systems relaying Each chapter opens with a historical profile or career talk followed by an introduction that states the chapter objectives and links the chapter to the previous ones and then the introduction for each chapter All principles are presented in a lucid logical step by step approach As much as possible the authors avoid wordiness and detail overload that could hide concepts and impede understanding In each chapter the authors present some of the solved examples and applications using a computer program Toward the end of each chapter the authors discuss some application aspects of the concepts covered in the chapter using a computer program In recognition of requirements by the Accreditation Board for Engineering and Technology ABET on integrating computer tools the use of SCADA technology is encouraged in a student friendly manner SCADA technology using the Lucas Nulle GmbH system is introduced and applied gradually throughout the book Practice problems immediately follow each illustrative example Students can follow the example step by step to solve the practice problems without flipping pages or looking at the book s end for answers These practice problems test students

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**Power Quality in Power Systems and Electrical Machines** Ewald F. Fuchs, Mohammad A. S. Masoum, 2011-08-29 Power Quality in Power Systems and Electrical Machines Second Edition helps readers understand the causes and effects of power quality problems and provides techniques to mitigate these problems Power quality is a measure of deviations in supply systems and their components and affects all connected electrical and electronic equipment including computers TV monitors and lighting In this book analytical and measuring techniques are applied to power quality problems as they occur in central power stations and distributed generation such as alternative power systems Provides theoretical and practical insight into power quality problems most books available are either geared to theory or practice only Problems and solutions at the end of each chapter dealing with practical applications Includes application examples implemented in SPICE Mathematica and MATLAB

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*Power System Analysis* Charles A. Gross, 1986 Provides a basic comprehensive treatment of the major electrical engineering problems associated with the design and operation of electric power systems The major components of the power system are modeled in terms of their sequence symmetrical component equivalent circuits Reviews power flow fault analysis economic dispatch and transient stability in power systems

**The Vocational-technical Library Collection** Bruce Reinhart, 1970      *Technical Books in Print* ,1966      *Engineering Education* ,1981      **Maintenance, Safety, Risk, Management and Life-Cycle Performance of Bridges** Nigel Powers, Dan M. Frangopol, Riadh Al-Mahaidi, Colin Caprani, 2018-07-04 Maintenance Safety Risk Management and Life Cycle Performance of Bridges contains lectures and papers presented at the Ninth International Conference on Bridge Maintenance Safety and Management IABMAS 2018 held in Melbourne Australia 9-13 July 2018 This volume consists of a book of extended abstracts and a USB card containing the full papers of 393 contributions presented at IABMAS 2018 including the T Y Lin Lecture 10 Keynote Lectures and 382 technical papers from 40 countries The contributions presented at IABMAS 2018 deal with the state of the art as well as emerging concepts and innovative applications related to the main aspects of bridge maintenance safety risk management

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