

Physics 1320: Study Guide for Chapter 31 AC circuits

OBJECTIVES:

- Use the loop rule to analyze
 - LC circuits
 - RLC circuits
 - Circuits with a driving AC power source

EQUATIONS:

LC Circuit:

Energy stored in Inductor: $U_B = \frac{1}{2}LI^2$

Energy stored in a capacitor: $U_E = \frac{q^2}{2C}$

$$Q(t) = Q_0 \cos \omega t \quad \text{where } \omega = \sqrt{\frac{1}{LC}}$$

$$I = \frac{dq}{dt} = -\frac{dQ}{dt}$$

RLC Circuit starting with a charged capacitor:

$$q(t) = Q_0 e^{-t/2\tau} \cos(\omega' t + \phi)$$

with time constant: $\tau = \frac{L}{R}$

$$\text{and } \omega' = \sqrt{\omega^2 - \left(\frac{R}{2L}\right)^2}$$

Circuits with alternating emf: $\mathcal{E} = \mathcal{E}_m \sin(\omega_d t)$

have a current $i = I \sin(\omega_d t - \phi)$

Voltages across circuit elements: Phase angle relative to I :

$$V_R = IR \quad \phi = 0 \quad V_R \text{ is in phase with } I$$

$$V_C = IX_C \quad X_C = \frac{1}{\omega_d C} \quad \phi = -90^\circ \quad V_C \text{ trails } I \text{ by } 90^\circ$$

$$V_L = IX_L \quad X_L = \omega_d L \quad \phi = +90^\circ \quad V_L \text{ leads } I \text{ by } 90^\circ$$

$$\text{RLC circuit impedance} \quad Z = \sqrt{R^2 + (X_L - X_C)^2}$$

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McGraw-Hill's HVAC Licensing Study Guide Rex Miller, Mark Miller, 2007-01-11 Get All the Practice Questions and Answers Calculations and Troubleshooting Tips You Need to Ace the major HVAC Licensing Exams HVAC technicians and students alike can turn to the HVAC Licensing Study Guide for everything they need to prepare for and pass the major HVAC licensing exams on the very first try Designed to boost confidence skills and knowledge this unique career building resource contains over 800 practice questions and answers essential calculations and step by step troubleshooting tips for the job site Written by two of the most experienced and successful authors in the HVAC field this on target book presents a wealth of current information on heating boilers ventilation ductwork air conditioning systems and methods refrigeration electrical systems control devices materials and equipment design and codes and standards Filled with over 200 detailed illustrations and handy tip boxes on important code matters and exam questions the HVAC Licensing Study Guide enables readers to Develop skills with material most likely to appear on the NATE ICE RSES and HVAC licensing exams Improve test taking ability with over 800 exam style multiple choice and true false questions and answers Learn about the latest refrigerant usage and regulations Keep up with the most recent codes and standards Acquire the confidence skills and knowledge needed to pass your licensing exam on the first try This HVAC Study Guide Will Help You Master Heating Boilers Ventilation Ductwork Air Conditioning Refrigeration Electrical Control Devices and Much More **AVI ASE Automotive Video** Incorporated, 1999-01-01 **ASE Test Preparation - A7 Heating and Air Conditioning** Delmar Publishers, 2011-06 The fifth edition of Delmar's Automotive Service Excellence ASE Test Preparation Manual for the A7 HEATING AND AIR CONDITIONING certification exam contains an abundance of content designed to help you successfully pass your ASE exam This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon but also provides descriptions of the various types of questions on a typical ASE exam as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day **Heating and Air Conditioning Maintainer** National Learning Corporation, 2020 The Heating and Air Conditioning Maintainer Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to electrical theory electrical mechanical and other HVAC devices and components tools instruments and materials workplace safety understanding drawings and specifications and more **Heating and Air Conditioning Maintainer** National Learning Corporation, 2019 The Heating and Air Conditioning Maintainer Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to electrical theory electrical mechanical and other HVAC devices and components tools instruments and materials workplace safety understanding drawings and specifications and

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the Japanese and spent the rest of the war all 1 355 days as POWs They didn't know the statistic that stated a marine was 17 5 times more likely to die in a Japanese prison camp than in battle or that 38 percent of all Americans captured by the Japanese died in labor camps But they were soon to find out on their own The Secret Camera is the true story of how one North China marine struggled for survival From his capture on Pearl Harbor Day through the bombing of Nagasaki Corporal Terence S Kirk spent years as slave labor for the Japanese war machine Watching himself and his fellow marines wither from strapping young men to mere skeletons ravaged by starvation abuse and disease he decided to make a difference by recording the atrocities they all endured With the help of a Japanese interpreter and a handful of other brave marines Kirk managed to build a pinhole camera from scraps of cardboard take a handful of photos and then hide them away until the end of the war These are the only photos ever taken inside a Japanese POW camp A record of courage faith and ingenuity his is a story of heroism unimaginable adversity and the will to survive His photos sat unpublished for more than fifty years ignored by a U S government that seemed indifferent to the atrocities the images documented But Kirk would not let them languish and this book is his legacy

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