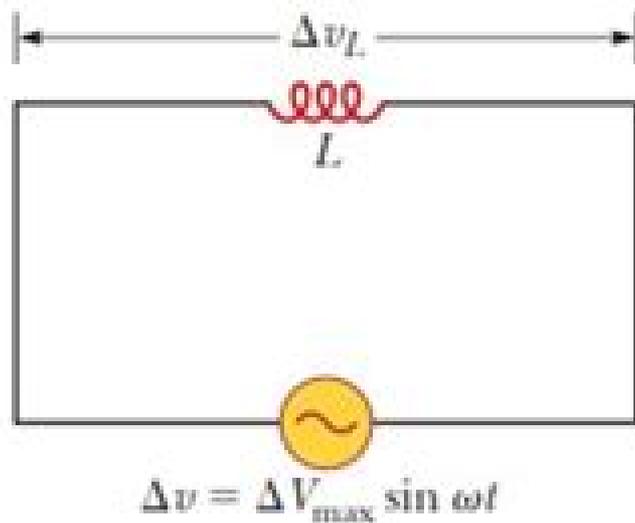
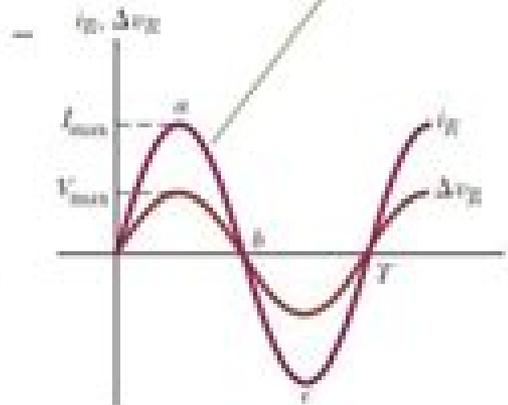


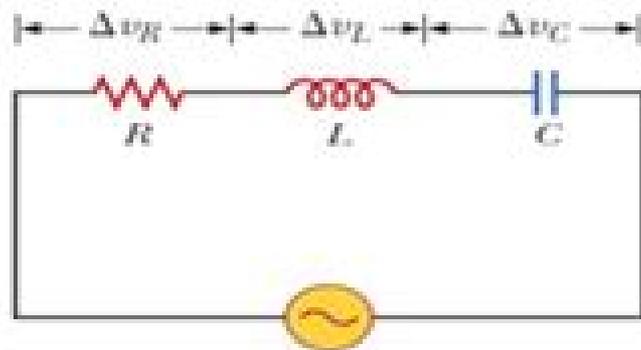
# AC Circuits



The current and the voltage are in phase: they simultaneously reach their maximum values, their minimum values, and their zero values.



The current and the voltage phasors are in the same direction because the current is in phase with the voltage.



$$\Delta v_R = I_{\max} R \sin \omega t = \Delta V_R \sin \omega t$$

$$\Delta v_L = I_{\max} X_L \sin\left(\omega t + \frac{\pi}{2}\right) = \Delta V_L \cos \omega t$$

$$\Delta v_C = I_{\max} X_C \sin\left(\omega t - \frac{\pi}{2}\right) = -\Delta V_C \cos \omega t$$



# Alternating Current Circuits

**Daniel F McAuley**



## **Alternating Current Circuits:**

Alternating-current Circuits Russell Marion Kerchner, George Francis Corcoran, 1960      **Alternating-current Circuits** John Myron Bryant, James Aquilla Correll, 1925      **Graphical Analysis of Alternating Current Circuits** Frederick William Lee, 1928      **Direct and Alternating Current Circuits** Bernard Grob, 1986      **Basic AC Circuits** John Clayton Rawlins, 2000-09-28 Covers electronics concepts terms and the mathematics required to understand AC circuit problems

**Alternating-current Circuits** John Myron Bryant, James Aquilla Correll, Elmer Walter Johnson, 1939

**Alternating-current Circuits** Kwan Yau Tang, 1951      **Alternating Currents in Theory and Practice** William Henry Nichols James, 1916      **Theory and Practice of Alternating Currents** Alfred Thomas Dover, 1929      Alternating Currents Alfred Hay, 1906      **Alternating-current Circuits** Earle Monroe Morecock, 1942      Electric circuits J. Richard Johnson, 1970      *Alternating Current Circuits* Mendell Penco Weinbach, 1933      **Alternating Current: Circuits and Measurements** Charles J. Anderson, Anthony Santanelli, Fred R. Kulis, 1966      Analysis of Alternating-current Circuits Wilbur R. Le Page, 1952      **Direct and Alternating Current Circuits** Bernard Grob, 1986      *Steinmetz Electrical Engineering Library: Theory and calculation of alternating current phenomena (5th ed. 1916)* Charles Proteus Steinmetz, 1916      *Electric Circuits: Alternating current* J. Richard Johnson, 1970      **Understanding AC Circuits** Dale Patrick, Stephen Fardo, Stephen W. Fardo, 2000 Understanding AC Circuits covers the second half of a basic electronic circuits theory course integrating theory and laboratory practice into a single text Several key features in each unit make this an excellent teaching tool objectives key terms self tests lab experiments and a unit exam This new edition has been thoroughly revised and updated by the authors to reflect the latest information on electronics Understanding AC Circuits is designed with the electronics beginner and student in mind The authors use a practical approach exposing the reader to the systems that are built with AC circuits making it easy for beginners to master even complex concepts in electronics while gradually building their knowledge base of both theory and applications Each chapter includes easy to read text accompanied by clear and concise graphics fully explaining each concept before moving onto the next The authors have provided section quizzes and chapter tests so the readers can monitor their progress and review any sections before moving onto the next chapter Each chapter also includes several electronics experiments allowing the reader to build small circuits and low cost projects for the added bonus of hands on experience in AC electronics Understanding AC Circuits fully covers dozens of topics including single phase and three phase AC electronics electrical generator basics how to use a multimeter and oscilloscope in AC electronics troubleshooting and testing circuits tools and equipment resistive circuits inductive circuits capacitive circuits vector diagrams series circuits transformers filter circuits resonant circuits decibels waveshaping control electronic symbols soldering techniques plus much more Integrates theory and lab experiments Contains course and learning objectives and self quizzes Heavily illustrated      **Alternating Current Fundamentals** John R. Duff, 1961

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