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When a sinusoidal alternating current (AC) is passing through a linear inductance, the induced back-EMF will also be sinusoidal. If the current through the inductance is  $i(t) = \hat{i} \sin(\omega t)$ , from (1) above the voltage across it will be  $v = [L \frac{di(t)}{dt}] = \hat{v} \cos(\omega t) = \hat{v} \sin(\omega t + \frac{\pi}{2})$  where  $\hat{i}$  is the amplitude (peak value) of the sinusoidal current in amperes,  $\omega$  is the frequency of the alternating current in hertz, and  $L$  is the ...

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