

sTEem-at-Work
Puzzle #9
Energy Systems Tech

This is the last of a set of puzzles that deals with sine waves, or if you prefer cosine waves. Next month we might go over some the response data. But, in the meantime try this one out!

The Tech is checking the operation of an alternative energy system that uses capacitors to store and release a flow of charge, electrons on a wire, and knows that when operating correctly this electron flow, current, and the corresponding voltage do not go up and down together. They are not in phase. In fact, the voltage goes down after the current goes down, that is, the voltage "lags" the current. In the oscilloscope cartoon below, the system's voltage signal is connected to Channel B and the current signal is connected to Channel A.

The energy system is operating correctly? (Yes or No). Submit your answers at www.fl-ate.org.