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The superposition principle, also known as superposition property, states that, for all linear systems, the net response caused by two or more stimuli is the sum of the responses that would have been caused by each stimulus individually. So that if input A produces response X and input B produces response Y then input produces response. A function F that satisfies the superposition principle is called a linear function. Superposition can be defined by two simpler properties; ad

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$y + p(t)y = q(t)$. We will consider the left-hand side to be the system and the right-hand side to be the input. For any given input $q(t)$ that has output $y(t)$ we will write $q \rightarrow y$ (read input q leads to output y). If $q_1(t)$ and $q_2(t)$ are signals, and c_1 and c_2 are constants then we call $c_1 q_1 + c_2 q_2$.

18.03SCF11 text: Superposition Principle

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