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The other difference between the linear and nonlinear circuit is solving the circuit. In the linear circuits, the solving of the circuit is a simple by using a simple technique, using a calculator to solve and by comparing with the non-linear circuit the linear circuit is easy to solve.

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7. Using the method described in [3] design a linear observer circuit with states that synchronize with the nonlinear Chua's circuit using only the scalar synchronizing signal  $\hat{x}(t)$ . Verify system operation via a LTspice® simulation. References 1. M. P. Kennedy, "Three Steps to Chaos-Part I: Evolution," IEEE Transactions on Circuits and

### **Simulation, Analysis, and a Linear Observer of Chua's Circuit**

Kiyotaka Yamamura and Shigeru Tanaka, Finding all solutions of piecewise-linear resistive circuits using the dual simplex method, International Journal of Circuit Theory and Applications, 30, 6, (567-586), (2002).

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One way to analyze the circuit is to realize that we have 3 straight line regions in the graph: when the op-amp is linear, when the op-amp is in negative saturation and when the op-amp is in positive saturation. Therefore, we can get a linear model for the circuit in each region and do the analysis. However, this is cumbersome and not very intuitive.

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The other difference between the linear and nonlinear circuit is solving the circuit. In the linear circuits, the solving of the circuit is a simple by using a simple technique, using a calculator to solve and by comparing with the non-linear circuit the linear circuit is easy to solve.

### What are linear and non-linear circuits and It's Difference

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In a linear circuit, the output response of the circuit is directly proportional to the input. in an electric circuit, in which the applied sinusoidal voltage having frequency "f", the output (Current through a component or Voltage between two points) of that circuit is also sinusoidal having frequency "f".

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Circuit analysis is the process of finding all the currents and voltages in a network of connected components. We look at the basic elements used to build circuits, and find out what happens when elements are connected together into a circuit.

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