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Simulating Nonlinear Circuits With Python

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The duty cycle is not part of the circuit, so a separate list is allocated. The duty cycle is also not sampled at the same rate as the circuit, so a separate "_t" list is used to hold the time stamps. The code inside `run_buck_converter(...)` simulates the circuit elements using 10 time steps per 10us switching cycle.

GitHub - louisyang2015/circuit_sim: A circuit simulator in ...

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The proposed circuit simulator intends to be able to solve nonlinear systems for large time intervals. Abstract I have been using circuit simulators for the past 11 years as a power electronics researcher and after using a large number of them, found that for simulating large nonlinear circuits, quite often all

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of them run into specific issues.

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