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$d = a^2$ $e = b^2$ $f = a b \cos(c)$ $g = a b \sin(c)$ Now the equation is a lot simpler: $F_i = d + e X_i + f Y_i + g Z_i$. It's easy to do a least-squares linear inversion for d , e , f , and g . We can then get a , b , and c from: $a = \sqrt{d}$ $b = \sqrt{e}$ $c = \arctan(g/f)$ Okay, let's write this up in matrix form.

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Components of the simulator (contd) Simulator Written entirely in Python Uses network analysis and solves differential equations Details can be found in my book "Simulating non-linear circuits with Python Power Electronics: an open source simulator based on Python" - available at Gumroad: <https://gumroad.com/l/IYQK#>

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readers with an in-depth discussion of circuit simulation, combining basic electrical engineering circuit theory with Python programming. It fills an information gap by describing the development of Python Power Electronics, an open-source software for simulating circuits, and demonstrating its use in a sample circuit.

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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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