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Elec 4907 Circuit Simulator

Build and simulate circuits right in your browser.


- Design circuits by inserting netlist
- Analog and digital circuit simulations
- Schematic, wiring diagrams and plots of netlist inserted
- No need to Install anything! Launch it instantly when needed on a [sample click](#).

Launch Circuit Office

[or watch a quick demo video →](#)

2.3 meters in 9 days - Niseko Powd...

Watch later Share

Watch on  YouTube


Description

Circuit Office(4th Year Final Project) is a a circuit simulator that resides in the cloud. It is implemented on the Google App Engine. Python, Html, CSS and JavaScript are used to implement this project on the Google App Engine. The project is broadly divided into the user interface, the part that involves constructing the equations to solve the system, the frequency-domain engine and the time-domain engine. Further


12/14/2016
★★★★★
Lol!!!! It was so helpful. Would be helpful if you could add a schematic to make the application more user friendly.

8/16/2016
★★★★★
Pretty decent!!!!

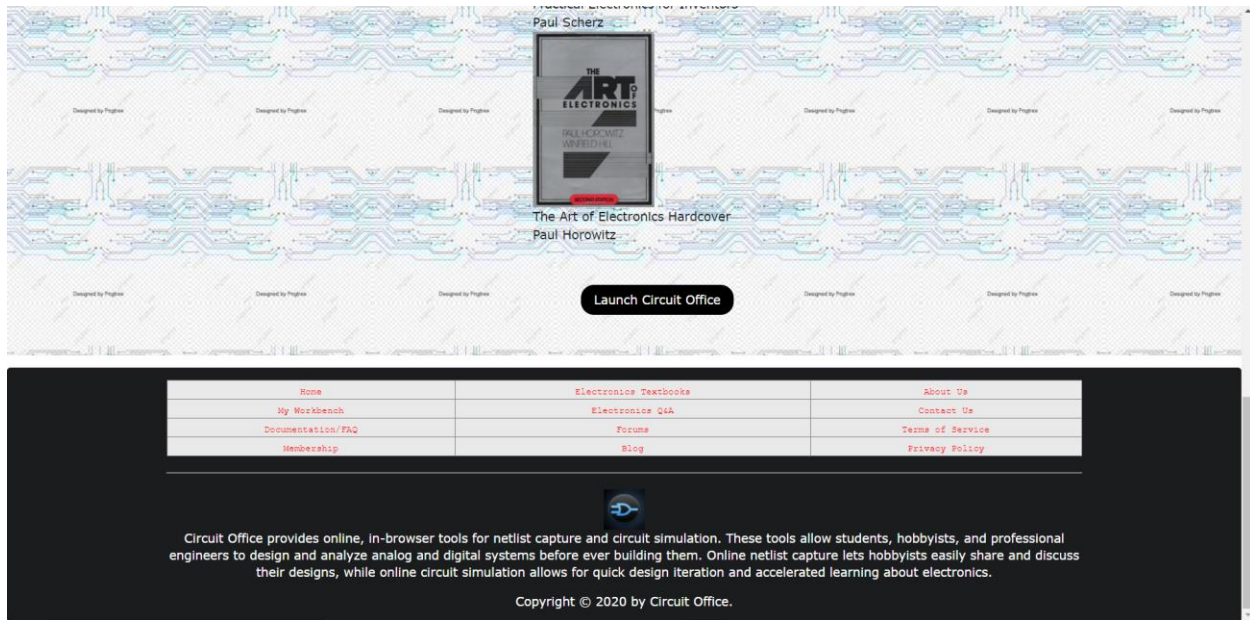
Related Technical Textbooks



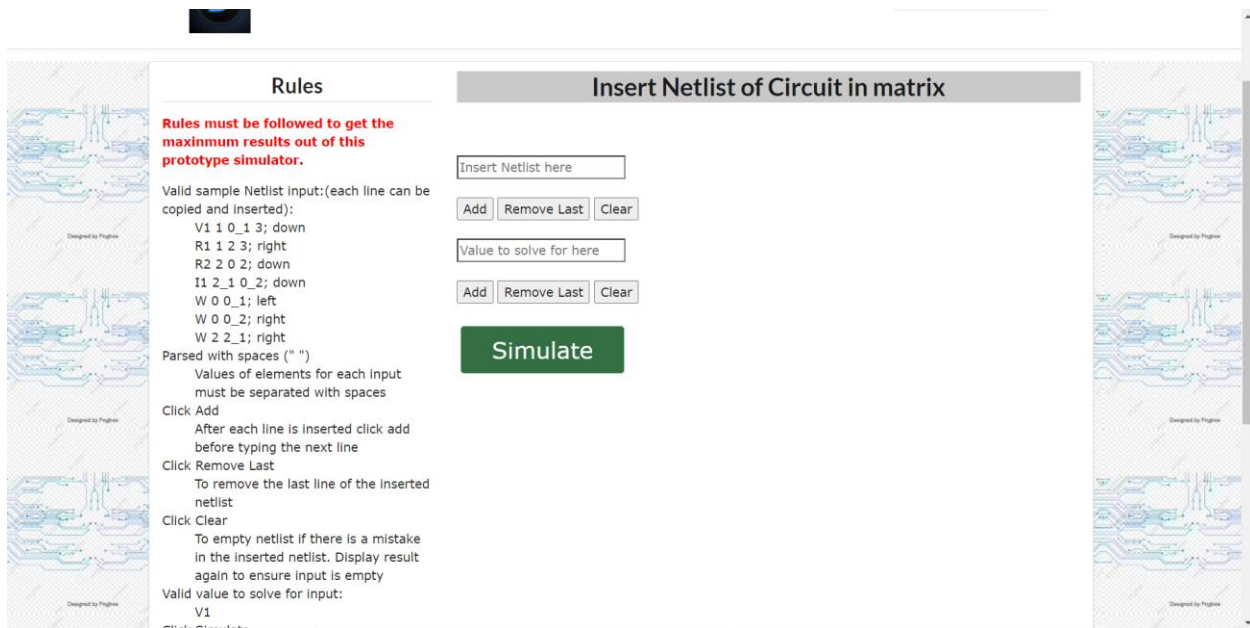
Electronics: Circuits and Devices
Aldo Karlmann



Practical Electronics for Inventors
Paul Scherz



When the Circuit Office is Launched:



When the user inserts the netlist of the circuit in:

Rules

Rules must be followed to get the maximum results out of this prototype simulator.
x = any number;

Valid element representation:
-Rx(Resistor x),....

Parsed with spaces (" ")
Values of elements for each input must be separated with spaces

End with a full stop(.)
Each input field must be ended to indicate field end.

Click Add
After each line is inserted click add before typing the next line

Click Remove Last
To remove the last line of the inserted netlist

Click Clear
To empty netlist if there is a mistake in the inserted netlist. Display result again to ensure input is empty

Click Solve
After inserting the netlist in correct format, Insert value of element to solve for and then click solve for solutions

Insert Netlist of Circuit in matrix

Insert Netlist here

Add Remove Last Clear

V1 1 0 1 3; down
R1 1 2 3; right
R2 2 0 2; down
I1 2_1 0_2; down
W 0 0_1; left
W 0 0_2; right
W 2 2_1; right

Value to solve for here

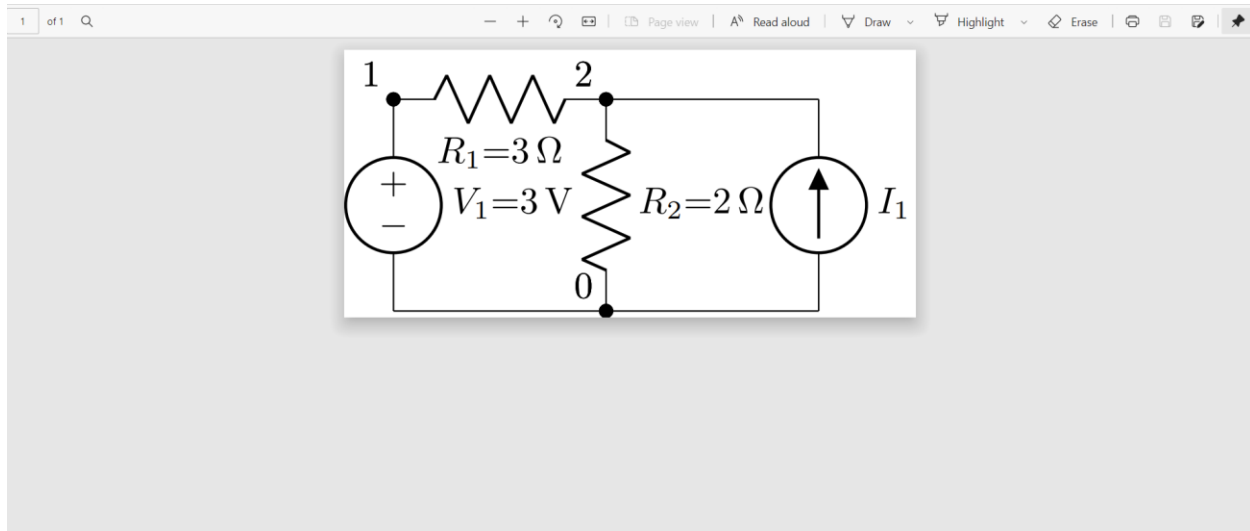
Add Remove Last Clear

v

Simulate


When the simulate is clicked after insertion:

(For now, Image of the circuit is drawn and put in a pdf document)



(Values and diagram to be this played on this page)

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Simulation Results

Simulation Parameter Value

None

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Circuit Office provides online, in-browser tools for netlist capture and circuit simulation. These tools allow students, hobbyists, and professional engineers to design and analyze analog and digital systems before ever building them. Online netlist capture lets hobbyists easily share and discuss their designs, while online circuit simulation allows for quick design iteration and accelerated learning about electronics.

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 Electrical Engineering

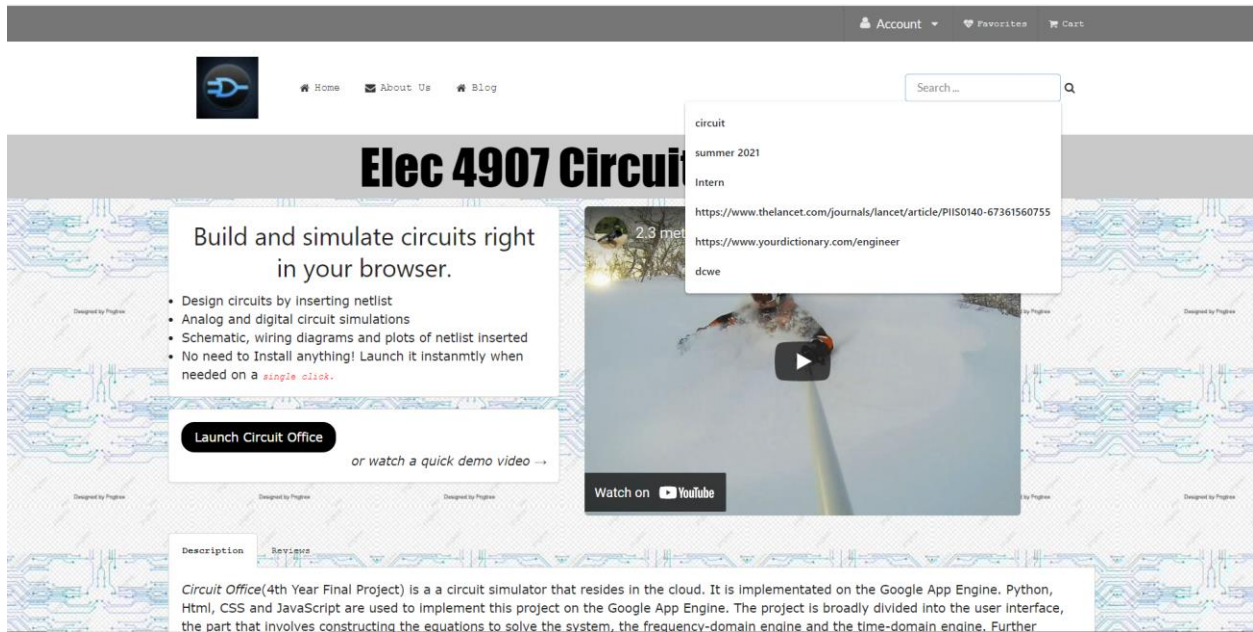


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 Electrical Engineering



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