

PDF Available

What is the Ground Plane?

January 2023

Authors:



Vinyasi Qx



Download file PDF



Abstract

A simulation, in Micro-Cap, of Byron Brubaker's rendition of Tesla's Hairpin circuit. This circuit uses negative impedance to pump current out of an Earth ground, labeled: EarthSource, using far less energy than the quantity which is extracted. Find three files included in this presentation: Byron's schematic, a compressed ZIP file of all of my simulations and their screenshots, and a short PDF explaining my findings.

ResearchGate

Discover the world's research

- 20+ million members
- 135+ million publications
- 700k+ research projects

lain for free



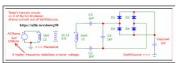


Content uploaded by Vinyasi Qx

Author content

Content may be subject to copyright.

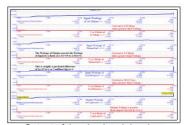
What is the Ground Plane?12



Schematic drawing of a simulation of Byron Brubaker's rendition of Tesla's Hairpin circuit.

Up until now, I did not understand how a Berkeley SPICE³ ground component operates. Nor did I understand its difference from how a ground operates in Paul Falstad's simulator ⁴

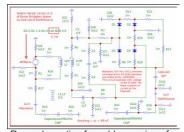
But the study of Byron Brubaker's version, 1.0, of Tesla's Hairpin Circuit⁵ prompted me to finally understand these differences.



Output of the simulated drawing.

The ground components in both simulators are unique to each other due to how a referencing ground operates in each simulator.

In Paul Falstad's simulator, a referencing ground is already provided by the software. So, the user does not have to insert one anywhere since that has already been accomplished. The only purpose for the user to insert a ground (in Paul Falstad's simulator) is to act as a source for electronic flow of current. This presupposes that the Earth is a battery of around one microvolt at ground-level whose amp-hour capacity is vast!



Raw schematic of an older version of a simulation of Byron Brubaker's rendition of Tesla's Hairpin circuit. Notice the complexity of this previous version versus the simplified drawing, up above? Don't build this version; build that one and safely play with modifying its parameters.

A referencing ground is not provided in the Berkeley SPICE family of simulators, to which Micro-Cap⁶ and LTSPICE⁷ are members. So, this is the only function which a ground represents in these simulators. If you want to represent anything else, such as what a user-inserted ground would represent in Paul Falstad's simulator, then you have to



Output of the older, simulated version of Byron's Hairpin.

insert a micro volt battery in between a ground and your circuit. You will also have to add a low-level capacitor behind the battery. I have labeled these, CapacitanceOfEarth1 and CapacitanceOfEarth2. Between this battery and the circuit, you may position your load. Mine, here, is a capacitive load, labeled: CapLoad. It is not a resistive load

because that cannot sustain the *transient* (a momentary surge) which this simulation suddenly provokes and quickly dissipates to zero. So, a relatively large capacitive load could retain its charge and a series of switchings could clear these charges to zero by transferring these charges to the actual load that you wish to power and then restart this circuit from another cold start?

All of my capacitors possess 3 Ohms of equivalent series resistance. Both of my coils possess units of resistance equal to their units of inductance to approximate a wire gauge of 25 AWG.

The rate at which over-reactance exhibits overunity is determined by the smallness of the two capacitors, labeled: CapacitanceOfEarth1 and CapacitanceOfEarth2. Although the Earth's capacitance is

3The SPICE Page

4Paul Falstad's electronic simulator

5My discussion of Byron's Hairpin Circuit on Quora

6Micro-Cap 12 electronic simulator

7LTspice – Fast • Free • Unlimited

¹ Antenna Ground Plane: Theory & Design » Electronics Notes (electronics-notes.com)

²The ground plane is not merely a zero reference.

Citations (0) References (0) ResearchGate has not been able to resolve any citations for this publication. Recommendations Discover more

Project

Almost Limitless EV Range Extender

Vinyasi Qx

Simulate in Micro-Cap flavor of Berkeley SPICE a range extender for an electric vehicle such that it uses merely one battery to top off its battery pack using reactive power amplification and its s ... [more]

View project

Presentation Full-text available

Oliver Heaviside Discovered a Practical Substitute for Super-Conductance at Room Temperature

August 2022

Vinyasi Qx

A magnetic sink, when wrapped around magnetic wire prior to winding coils, preserves the magnetic field of the wire to such a degree of efficiency that the transmission of power across the wire can be sustained for any length regardless of the wire's resistance. This has already been proven by the 1880's solution to the trans-Atlantic telegraph cable problem in which an insulated copper cable was ... [Show full abstract]

View full-text

Code Full-text available

Simulation file for the proposed circuit

May 2020

Bilal Kabas

View full-text

Article Full-text available

Free Energy is a Self-fulfilling Proposition if a Specific Set of Conditions are Met

July 2022 · International Journal of Scientific and Engineering Research

Vinyasi Qx

These conditions are: that the voltage peaks and troughs of oscillations and the current peaks and troughs are in opposition to each other for most of the time. This must be brought about by a simultaneous opposition of inductive and capacitive reactance at their full displacement of $\pm 90^{\circ}$. This constitutes the generation of reactive power as defined by passive sign convention as well as the ... [Show full abstract]

Data

Full-text available

URL to full text.txt

July 2022



Vinyasi Qx

An attempt is made to coalesce the theory behind indefinite gain of an electrical system so as to avoid Conservation of Energy by confining it to a definition of the generation and conversion of electrical reactance.

View full-text

Presentation

Full-text available

What is Free Energy?

August 2022



Vinyasi Qx

We've been lied to in the worst possible way imaginable. The easiest lie is to ask the wrong questions. This belies our ignorance and the impossibility of achieving any worthwhile result.

View full-text

Last Updated: 24 Jan 2023





Company

Support

Business solutions

About us

Help Center

<u>Advertising</u>

News

Recruiting

<u>Careers</u>

