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File:Current-inversion.png

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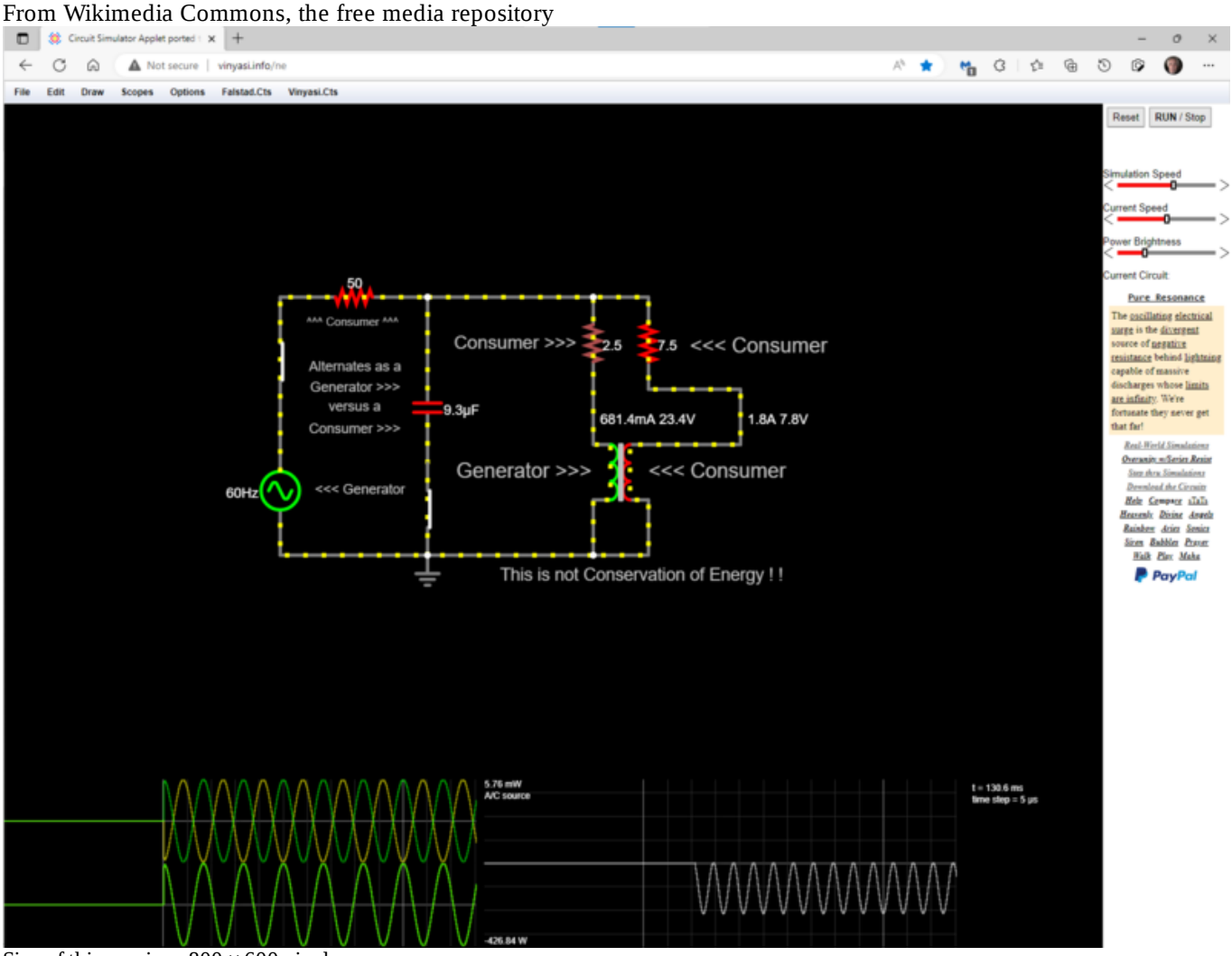

Size of this preview: 800 × 600 pixels.

Original file (1,600 × 1,200 pixels, file size: 178 KB, MIME type: image/png)

Captions

Captions	
English	Simple reversal of current in a step-up/down transformer which is shorted.

Summary

Description	**English:** Kirchhoff's Current Law dictates that current should split within a current division such that the total current is the sum of the individual branches of current. Additionally, it has been assumed (by convention) that the polarities of all of the branches of current must be the same. But this is not always necessary.

	Consider current reversal (http://vinyasi.info/ne?startCircuit=current-inversion.txt) on one coil of a transformer ... This reversal *must be* of greater absolute value than the current on the opposing coil to satisfy Kirchhoff's Current Law! It's possible that the consequence will be that the voltage source may shift most of its power (watts) into the negative *all of the time* indicating a significant reversal of current has occurred in the inductive load (represented by the transformer on the right).
Date	6 November 2022
Source	Own work
Author	Vinyasi

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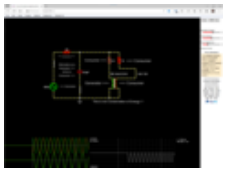
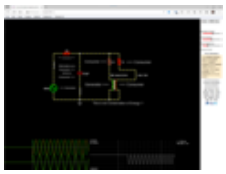
	Date/Time	Thumbnail	Dimensions	User	Comment
current	**18:05, 12 November 2022**		1,600 × 1,200 (178 KB)	Vinyasi (talk | contribs)	{{Information |Description=Corrected some text. |Source= {{own}} |Date= |Author= Vinyasi |Permission= |other_versions= }}
	15:57, 6 November 2022		1,600 × 1,200 (152 KB)	Vinyasi (talk | contribs)	Updated to a better, more relevant, title within this screenshot.
	15:21, 6 November 2022		1,600 × 1,200 (152 KB)	Vinyasi (talk | contribs)	Uploaded while editing "Free Energy does not Exist" on en.wikibooks.org

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Horizontal resolution	37.79 dpc
Vertical resolution	37.79 dpc

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inception

6 November 2022

MIME type

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original creation by uploader

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