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File:14 - Deriving the individual amperages of R1 and R2 from the total amperage and the individual voltages of R1 and R2.svg

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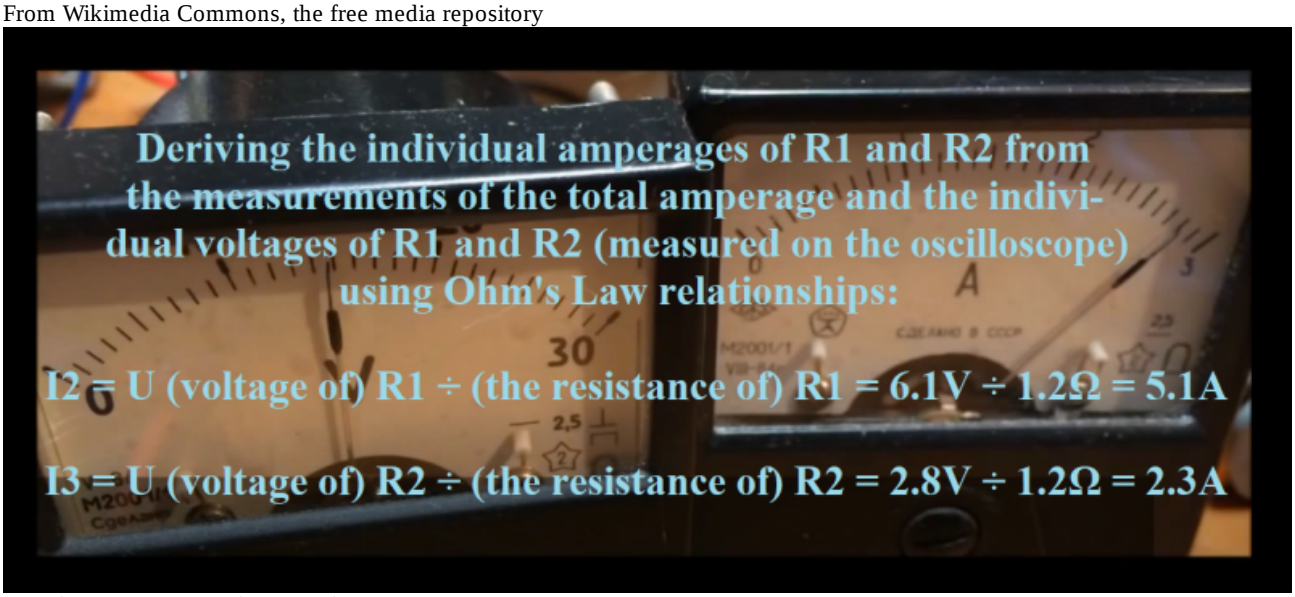

Size of this PNG preview of this SVG file: 800 × 351 pixels.

Original file (SVG file, nominally 1,273 × 559 pixels, file size: 906 KB)

Captions

Captions

English	Calculations of amperage and voltage using Ohm's Law.

Summary

Description	**English:** Using Ohm's Law, it is possible to derive the individual amperages for multiple coils (which are electrically connected in parallel with each other) if we also know their total amperage if these measurements are taken with an ammeter at a location within the circuit which is shared in common with both coils, ie. a parent node at the junction where it splits into multiple branches. Furthermore, we will need to measure the voltages of each branch by measuring the voltages of resistors placed adjacent, and in series with, each coil by using an oscilloscope. These readings – and their derivative calculations – are significant, because they help us determine whether or not inversion of current has occurred during the shorted transformer experiment of MrPreva (https://www.youtube.com/watch?v=XInN3jk1Hy0).
Date	8 November 2022
Source	скриншот с видеофайла (https://www.youtube.com/watch?v=XInN3jk1Hy0) сделанVinyasi
Author	MrPreva
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current	**22:20, 8 November 2022**		1,273 × 559 (906 KB)	Vinyasi (talk | contribs)	Uploaded own work with UploadWizard

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Width	1273
Height	559

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