

Voltage Divider Circuits

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

Spoken Tutorial & FOSSEE Team

IIT Bombay

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Learning Objectives



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- **The input voltage divides among the components in the circuit**



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- **The input voltage divides among the components in the circuit**
- **To manage the output voltage of the circuit by changing the values of resistors**



System Requirement



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- **Ubuntu Linux 20.04 OS**



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- **CircuitJS Application**



Pre-requisites



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To follow this tutorial, you should have basic knowledge of

- **Electrical Circuits**



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To follow this tutorial, you should have basic knowledge of

- Electrical Circuits
- Series and Parallel Resistance



Summary

In this tutorial, we learnt how

- The input voltage divides among the components in the circuit**
- To manage the output voltage of the circuit by changing the values of resistors**



Assignment

- 1 Find out the value of resistor R_1 , for the following condition of the circuit:
- 2 $V_{in} = 12$ Volts, $V_{out} = 2$ Volts and $R_2 = 2.5$ Kilo Ohms



About the Spoken Tutorial Project

- Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to contact@spoken-tutorial.org



Answers for THIS Spoken Tutorial

- Questions in THIS Spoken Tutorial?
- Visit <https://forums.spoken-tutorial.org>
- Choose the minute and second where you have the question
- Explain your question briefly
- The Spoken Tutorial project will ensure an answer



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Thank You

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