LCR Circuit

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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We will learn how

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- **A resistor, capacitor and an inductor behaves in the AC circuit when connected in series**

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**

Applications of LCR circuit

Applications of LCR circuit

LCR circuits are commonly used in

- **Filter designs to selectively pass or stop certain frequencies of an AC signal**
- **Radio receivers and transmitters**
- **Generating periodic waveforms at specific frequency**

Applications of LCR circuit

Applications of LCR circuit

LCR circuits are commonly used in

- **Sensors such as proximity, pressure and humidity to detect changes in the surrounding values**

Summary

In this tutorial, we learnt how

- **A resistor, capacitor and an inductor behaves in the AC circuit when connected in series**

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**

- **You will have to register to ask questions**

Acknowledgements

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Thank You

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