Lenz DiSCo

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Abstract

Lenz DiSCo is an innovative mobile application developed by our team that aims to introduce a new Teaching Aid (ABM) that is easy to use and can improve students' understanding in determining the direction of the induced current using Lenz's Law. Based on our observation, we noticed that the students had difficulties understanding Lenz's Law and determining the direction of the induced current for a solenoid and coil because they could not imagine the induced current that was produced. Thus, we have developed an application known as Lenz DiSCo by using the Apple software application Keynote to help the students determine the direction of the induced current for Lenz's Law. Our target group comprises 61 students majoring in Life Science and Physical Science at Kelantan Matriculation College (KMKt). The data was collected through observation, and a questionnaire was given to the students. In conclusion, the Lenz DiSCo app offers an interactive and user-friendly platform to visualize and experiment with Lenz's Law through various simulations and educational resources. This app represents a valuable tool for students, educators, and enthusiasts alike to grasp the intricacies of Lenz's Law and its practical applications.

Keywords: Lenz's Law, Lenz DiSCo

TEACHING AND LEARNING POSTER IDEAS

TALPI 2023

"TOWARDS INNOVATIVE GLOBAL TRENDS IN EDUCATION "

VIRTUAL COMPETITION

"Lenz DiSCo"

Abstract

Lenz DiSCo is an innovative mobile application developed by our team, which aims to provide a comprehensive understanding of Lenz's Law. Lenz's Law is a fundamental principle in electromagnetism that describes the direction of an induced current in a conductor due to a changing magnetic field. The Lenz DiSCo app offers an interactive and user-friendly platform to visualize and experiment with Lenz's Law through various simulations and educational resources. This app represents a valuable tool for students, educators, and enthusiasts alike to grasp the intricacies of Lenz's Law and its practical applications.

Objectives

- Introduce learners to the concept of Lenz's Law and its applications
- Foster a deep understanding of electromagnetic induction through engaging experiences
- Provide a platform for students to explore and experiment with real-world scenarios

Advantages

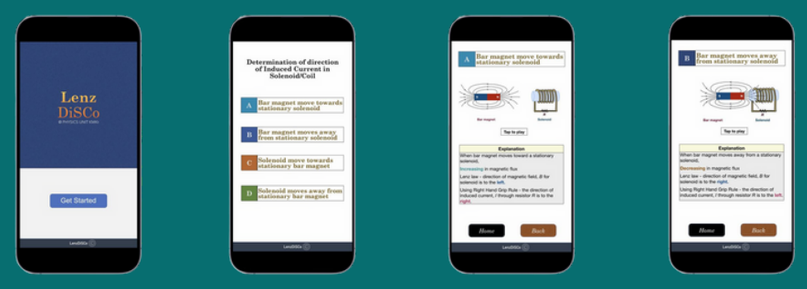
- Engaging and interactive: Lenz DiSCo combines interactive simulations, making learning Lenz's Law enjoyable
- Self-paced learning: Lenz DiSCo allows learners to progress at their own pace

Usefulness

- Simplifies complex concepts, making them accessible to learners of all levels
- Enhance students' understanding and appreciation of Lenz's Law

Novelty

- Work online and offline for free
- Provide a user-friendly interface
- Compatible across various devices and operating systems (iOS and Android)



Commercialization potential

Lenz DiSCo offers exciting partnership for educational institutions and organizations. By collaborating with schools and universities, Lenz DiSCo can be integrated into curriculums, enhancing the learning outcomes of students worldwide.

Inventors

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Sekian, terima kasih.

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Saya yang menjalankan amanah,

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