

Contribution ID: 175 Type: Oral presentation

# Didactical Effect of Teaching with an Open Access Interactive Textbook on Electricity and Magnetism

Friday 4 July 2025 14:00 (20 minutes)

Electricity and Magnetism is a first-year course for about 250 Applied Physics students at TU Delft. To support learning, we developed an open, interactive textbook featuring short videos, descriptive texts, and Python-based illustrations. This article explores the creation process, content, and current use of the textbook in our teaching.

#### **Education level**

Age over 18 (excluding teacher education)

## Physics topic

Full curriculum

### Research focus

Digital technologies (multimedia, simulations, AR, VR, remote, games)

### Research method

Other

### Organizing preference criteria

Education level

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Session Classification: Parallel oral presentations

Track Classification: Digital technologies (DIGI)