

Modeling of magnetic circuits



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

- **Ametys Code:** ELP5
- **Open to exchange students:** Yes

Presentation

Description

Modeling magnetic circuits as equivalent electrical circuits, using Hopkinson's analogy, in the case of unsaturated linear circuits. Understanding the origin of the circuit model of the single-phase electrical transformer. Defining the circuit model of the single-phase electrical transformer based on the tests performed. Understanding the circuit model of the stator of electrical machines. Understanding the operation of a three-phase transformer (model, phase rotation, turns ratio).