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).