

CVS control



Component
École Nationale
Supérieure
d'Électrotechnique
d'Électronique

In brief

- > **Ametys Code:** N9EE22B
- > **Open to exchange students:** Yes

Presentation

Objectives

Learn control methods to give static converters robust dynamic performance, control energy harvesting, and improve waveforms.

Description

General information on converter modeling

- Issues - dynamic constraints and shape constraints Links between the converter structure and the control structure - The PWM approach to control
- Controller synthesis and linearization
- Characterization of control laws in terms of robustness Energy harvesting - active filtering - harmonic processing / Application examples: PWM inverter and rectifier, multi-cell converter, etc