Filter Synthesis

Component
École Nationale Supérieure d'Électrotechnique d'Électronique

In brief

- **Code ELP:** N9EE06C
- **Open to exchange students:** Yes

Presentation

Objectives

At the end of this project, students will be able to:
- define filter specifications that meet the overall constraints of a microwave multiplexer
- establish and analyze the coupling matrix associated with each filter
- define and develop the filter topology that meets the specifications
- determine and simulate the overall architecture of the multiplexer.
- analyze performance and propose design and correction methods.

Description

This course is a project-based learning experience in microwave multiplexer design based on the determination of coupling matrices.

Pre-requisites

Course: "Analog Filtering" - 2nd year EEEA, Electronics track

ADS lab, N7EE06D - 2nd year EEEA, Electronics track

Non-contractual information.
Last update on 29 October 2025