

Course Quadripoles and filters

Includes:

- 1 Experiment card with RC high-pass and low-pass filters, RC combinations configurable by jumpers
- 1 Experiment card with band-pass filter, consisting of 2 capacitively coupled parallel resonant circuits
- 1 Experiment card with band-pass and band-cut filters
- 1 Experiment card with series and parallel resonant circuits and parallel resonant circuit with tuning
- Labsoft and course software

Course contents:

- Introduction to the term transmission function, phase response and limiting of filters
- Introduction to representing transmission functions in the complex plane
- Determination of transmission function, phase response and cut-off frequencies of high-pass and low-pass filters by measurement (Bode plot)
- Determination of transmission function, band width and median frequency of band-pass filters by measurement (Bode plot)
- Introduction to the terms transmission function, band width, quality and resonant frequency of resonant circuits
- Introduction to representing transmission functions of resonant circuits in the complex plane
- Determination of transmission function, phase response and resonant frequency of resonant circuits filters by measurement (Bode plot)
- Determination of band width and quality of resonant circuits by measurement
- Determination of tunable range of a parallel resonant circuit with varicap diode tuning by measurement
- Course duration: 5.0 h approx.

