

# Seminar on Design of RLC band pass filters



**Escuela Universitaria de Ingeniería  
Técnica de Telecomunicación**



**Universidad Politécnica de Madrid**

## Contents

Lesson 1: Introduction, Filter design, Standard approximations (90 minutes)

Lesson 2: Description of compact narrow band pass filters (90 minutes)

Lesson 3: Circuit design (90 minutes)

## Professor: Dr. Thomas Buch

Studies of information technology and theoretical electrical engineering at the TH Ilmenau. Doctorate in the field of the RF communication channel modeling. 10 years development leader at the development of integrated navigation systems and autopilots. Processing of projects in the field of the integrated navigation and track control systems, development of autonomous unmanned watercrafts. Execution of examinations and acquirement of studies for the flow measuring with the help of Acoustic Doppler Current Profiler (ADCP) into harbor entrances and river mouths. Present job as teacher at the University of Rostock on the area of the signal and system theory, the analogous and digital filters as well as this one digital signal processing. Present field of research activity is signal processing in the underwater acoustics and the modelling of the signal propagation in the water.

## Timetable

Monday 28<sup>th</sup> September: 14:00h - 15:30h

Tuesday 29<sup>th</sup> September: 14:00h - 15:30h

Wednesday 30<sup>th</sup> September: 14:00h - 15:30h

## Room

3004

## Audience and Inscriptions

This seminar is aimed to Master students and 3er level students.

Inscriptions should be done at the student's secretary of the EUIT de Telecomunicación or at the event room

## Credits

The students attending the event will get 1 credit. Master students must complete the proposed homework.