

POZVÁNKA NA PŘEDNÁŠKY A SEMINÁŘ

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Photonics: An easy way to achieve a communication

Sensor Applications: An easy although powerful Metal detector

Finite Difference Time Domain (FDTD) method applied on electromagnetics

Kdy: 12. – 13. 6. 2017 – vždy od 9,00

Kde: Ústav mikroelektroniky, Technická 10 – 5. patro

Anotace témat

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The words Micro and Macro are nowadays often used. What do these words actually mean? A short trip through the world of electronic of today

Photonics: An easy way to achieve a communication

Communication over visible Light (VLC) has several advantages for short range communication when compared with RF communication. But how to achieve a communication over visible light? A short theory and a practical application on this topic.

Sensor Applications: An easy although powerful Metal detector

Inductive sensors are nowadays state of the art. Anyway, how does an inductive sensor work? A short theoretical background and a practical example

Finite Difference Time domain (FDTD) method applied on electromagnetics

Electromagnetic simulations have gained an important role in the design of daily life components. An easy, although really powerful way to simulate electromagnetic fields is to apply the finite difference time domain method to solve Maxwell Equations. Solving partial differential equations involve several steps, like definition of sources, analysis of boundaries etc. In this lecture a short introduction of the FDTD method will be provided and in workshop a simple practical example will be analyzed.