2.5 Wave propagation in layered media

Quiz

Answer these questions to get feedback on how well you understand the course. Only one of the answers is correct. You don't have to answer every question. If you don't know the answer you can just leave it blank (default option: "I won't answer this question") and this won't affect your score. Answering **correctly** will **add 2 points** to your score but on the other hand you'll **lose 1 point** if your answer is **wrong**. The questions are divided in groups of five questions.

Press **See result** after you have finished answering.

Displaying questions **1**..**5** of **5**:

Question 1

If the vector of the intensity of electric field is perpendicular to the plane of incidence, then …

Possible answers for question 1:

- ○ … cannot say anything about the wave polarization.
- ○ … we speak about the wave of parallel polarization.
- ○ … we speak about the perpendicularly polarized wave.
- ◉ I won't answer this question

Question 2

Wave impedance of a layer Depends on …

Possible answers for question 2:

- ○ … permittivity and permeability of the layer.
- ○ … permittivity and permeability of the layer, and is influenced by the parameters of neighboring layers.
- ○ … permittivity, permeability and thickness of the layer.
- ◉ I won't answer this question

Question 3

In case of the perpendicular incidence of the electromagnetic wave …

Possible answers for question 3:

- ○ … the wave goes through layers without any reflection.
- ○ … there is no difference between perpendicular and parallel polarization.
- ○ … we have to distinguish between polarizations.
- ◉ I won't answer this question

Question 4

Designing the matching circuits …

Possible answers for question 4:

- ○ … we can apply layers as parts of transmission lines in a cascade.
- ○ … we can apply layers the same way as parts of transmission lines (incl. shunts).
- ○ … we cannot apply layers.
- ◉ I won't answer this question

Question 5

Analyzing wave propagation in a layered media, we have assumed the wave is …

Possible answers for question 5:

- ○ … planar.
- ○ … spherical.
- ○ … cylindrical.
- ● I won't answer this question

see result