

4.6 Multi-band patch antennas

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

Polarization of an antenna is given by the orientation of ...

Possible answers for question 1:

- ... E-plane.
- ... H-plane.
- ... Poynting vector.
- I won't answer this question

Question 2

If the transmitter antenna is polarized vertically and the receiver antenna is polarized horizontally, then the signal level at the connector of the receiver antenna (considering zero cross-polarization) is ...

Possible answers for question 2:

- ... the same as for parallel polarized antennas.
- ... 3 dB less than for parallel polarized antennas.
- ... zero.
- I won't answer this question

Question 3

Dirichlet condition says that ...

Possible answers for question 3:

- ... the component of electric field intensity tangential to the perfect electric conductor (PEC), is zero.
- ... the component of electric field intensity perpendicular to the perfect electric conductor (PEC), is zero.
- ... the component of magnetic field intensity tangential to the perfect electric conductor (PEC), is zero.
- I won't answer this question

Question 4

In the Smith chart, a circle with centre $[1, 0j]$ and point $[0.5, 0j]$ on its perimeter circumscribes the area where ...

Possible answers for question 4:

- ... the input impedance of the antenna is purely real.
- ... the antenna is in resonance.
- ... the standing wave ratio at the antenna connector is smaller or equal to 2.
- I won't answer this question

Question 5

Diffraction of surface waves at the edges of dielectric slab results in ...

Possible answers for question 5:

- ... enhancement of antenna efficiency.
- ... enhancement of antenna bandwidth.
- ... deformations of directivity pattern, deterioration of front-to-back ratio, lower antenna gain, etc.
- I won't answer this question

see result