

4.2 Mutual impedance

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

Mutual impedance between two dipoles ...

Possible answers for question 1:

- ... is the difference between input impedances of those two dipoles.
- ... quantifies the contribution of the current on the first dipole to the voltage induced on the second dipole.
- ... can be neglected in practical computations.
- I won't answer this question

Question 2

Mutual impedance between two dipoles depends on ...

Possible answers for question 2:

- ... the distance of those two dipoles and the wavelength.
- ... the distance, but is independent on the wavelength.
- ... the distance and the input impedance of the dipoles.
- I won't answer this question

Question 3

Input impedance of the dipole in the array is influenced by ...

Possible answers for question 3:

- ... input impedances of neighboring dipoles and their currents.
- ... mutual impedances of neighboring dipoles and their currents.
- ... the linear combination if input impedances and mutual ones.
- I won't answer this question

Question 4

Mutual impedance between the first dipole and the second one ...

Possible answers for question 4:

- ... can equal (under special conditions) to the mutual impedance between the second dipole and the first one.
- ... can never equal to the mutual impedance between the second dipole and the first one.
- ... equals any time to the mutual impedance between the second dipole and the first one.
- I won't answer this question

Question 5

The method of electromagnetic forces can be applied ...

Possible answers for question 5:

- ... when dipoles are parallel.
- ... to an arbitrary array consisting of arbitrary antennas.
- ... to the array of arbitrarily oriented dipoles.
- I won't answer this question

see result