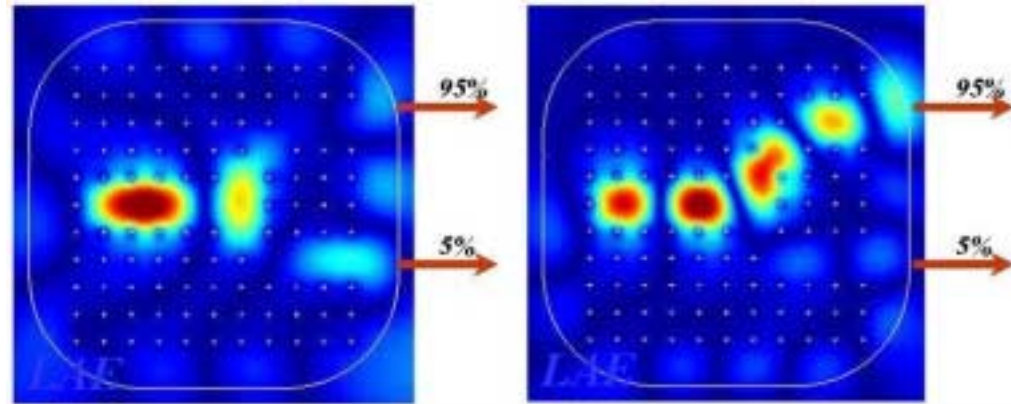
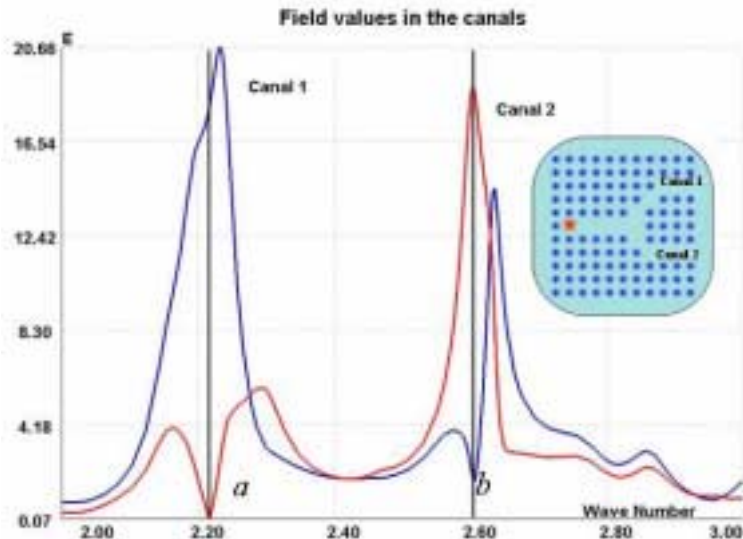


Crystals as Filters

It is more important to create the filtering device being able to distinguish the input frequency and to direct two different modes to the corresponding channels. In figure the crystal geometry with defects forming the nonsymmetrical channels and the field values at the channel's ends versus frequency are presented. Two distinct peaks in this picture correspond to the path-through frequencies of both channels. The fields at these frequencies are shown in right top figures. By using the program package developed by us it's possible to create and investigate more complicated channels network.



Crystals as Mixers

The third type of devices we consider are mixers. In figures bottom two crystal configurations forming a mixing device are shown. The energy from both sources located in the first and the second origin of canals respectively is directed to the third - output - end of the device.

