

Abstrakt v anglickém jazyce

The subject of the presented work is (the usage of) electroacoustic transducers in physics teaching. Its first part contains an overview of study materials, physics textbooks and a selection of academic studies dealing with the aforementioned topic. The central part of the thesis consists of three experimental activities in which electroacoustic transducers are employed. These activities may be adopted for home or laboratory work of students or in hobby groups. The first activity aims at exploring the principle of operation of ordinary headphones. The second activity contains instructions for making a simple phone. The third, most extensive activity, focuses on the measurement of electrical properties of various electroacoustic transducers. The results are further used for a more detailed discussion of their operating principles. In the final part of the thesis, the usage and verification of one of these proposed activities in practice are discussed.