ABSTRACT

This thesis is the first step in a long-therm project with object to built magnetometer from carbon nanotubes. At the beginning of the thesis is introduction to magnetism and its basic physical characteristics, brief description of the Earth's magnetic field, some magnetic minerals and material behavior in a magnetic filed. All this in a geological context. In the second part I focus on the measurment of the magnetic field, especially on some specific device. The third part deals with the allotrope of carbon – graphene structures. It offers a brief overview of thein properties, one chapter about the productiona and possible use. In discussion I try to combine these parts with a specific purpose, which is the uso of carbon nanotubes in measuring the rock magnetism. We present a simplified funcion principle of the discussed device, the first steps of construction and inicial measurment.