

This thesis deals with SiO₂ minerals, with main focus on the mineral quartz, which is one of the most common crust forming minerals. It informs about various SiO₂ modifications, describing internal structure, physical and chemical characteristics, which give the SiO₂ minerals their valuable properties in industrial use. Thesis also tracks abundance of these minerals in nature and describes qualitative criteria used to classify them in the manufacturing industry. There are several industrial applications of these minerals described.