Describe Earth's Structure and Composition.

A considerable body of inferential knowledge has been amassed concerning conthis interior through geophysical means i've primarily through The analysis of seismic shock waves emitted through Earth from earthquakes or manmade explosions. These as shock waves change their speed and direction once they wass a boundary and enter a different medium of mater. The analyses of shock waves, augmented with related data on Earth's magnetism and gravitation has helped geologish in carriag an interior structure of the Earth.

geologish have charted the interior structure of earth based on mechanical properties such as reheology (national coch and stress) and chemical properties.

On the basic of mechanical properties can be divided into anyth, hithaphere, asthenosphere, mesapheric mantles

outer we and inner core. · On the basis of chemical properties Earn can be divided into crust jouter core and inner core. CRUST: It is the outermost layer of the Earth and is composed of continental orust an poceanic basin of the Earth's surface. certain satient peauves of Earth's orust are hilled below: Thickness -> Crust is 40-70 km in the continents and is I-10 km thick in The oceans. Density & The Earths crust is 2.89/cs dense. Compositions It is mostly composed of aluminosilicales. Aluminium is the most abor dant metal in Earth's Wast (8.8%) Temperature . The deepest point of Earth's ent has a temperature of 870°C

This temperature is hot enough to men rocks. There types of rocks are found Earth's crust ie igneous, se dimenta. and melamorphic rocks. Mohorovicic discontinuity: The Mohorovicic discontinuity simply "Moho" is the boundary between the manthe and The crist. The word discontinvily in geology refin to the boundary between two layers where seismic shock ange their relocity MANTLE: layer next to exist This layer is a 900 km deep and is mainly composed of ferro-majorion silicates seimologists have divise

Mante Lower Upper mantle mantle. Pransition · 670 lim -. composed Lone Jerro-maynesium · The minerals 2900 um silicares manthe · The composition . tookin thick Endergo rimain the · contains a same as of a "phase" some called upper mantle ransi tion. as theno sphere . Its more also known as · 400 am desem than 670 um a sone of upper mante thick. wealnen because of pressure. COKE: The third and the last layer conth is called core and is wither subdivide & juto atter viguid I inner solid we. Outer liquid wire 2300 km thich · nickle -iron alloy · responsible for majnetic field of the earth. Inner solid was: . 1200 km thick. , solid iron

