1   What is the Gravimeter?

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Gravimeter is an instrument to measure the gravity. The utilization of information about gravity is in several problems such as:

- to pondering physical properties of underground layers

- For detection mine (for example petroleum: gravimeters define ups and downs of ground for us so we can find place containing petroleum).

- For interpolation of gravity in unavailable region.

- To calculate precise geoid as vertical base level, for modeling gravitational field, to accounting the density inside the ground.

- For readings about earthquakes, faults and etc.

Totally it is distributed two groups: absolute and relative gravimeters and work on various methods.

In this paper we have considered on some of them such as: pandols, springs, Lacoste-Romberg method, free falling and ballistic furthermore we have discussed about sample of gravimeter working by these methods and precision, advantages, defects and application of them.