

sat nav



Satellite navigation is a process of providing autonomous geo-spatial position with coverage of all over the world. This technology allows electronic receivers of small size to determine their altitude, latitude and longitude. All these three parameters then determine the location of any object with which the receiver is connected. The location is determined by receiving time signals which are transmitted by different frequencies of all satellites. Receivers are also used to calculate the precise time. This precise calculated time is then used for different scientific experiments.

The global coverage in satellites is done by constellation of MEO Satellites. MEO stands for Medium Earth Orbit. There are round about 20 to 30 MEO Satellites which are revolving in different orbital planes. The internal system of these satellites may be different from each other but all satellites inclination of more than 50 degree in each orbit. They cover the whole distance of each orbit in twelve hours. This is the orbital period if the satellite is at 20000 kilo meter height.

Satellite navigators send their signals from one point to another point. If one satellite recognizes some signal, then that signal is broadcasted with the help of a data message. Data message is actually a code and a time reference of that signal. Now there are many latest satellites which can do this process directly. Now at the result of this process a message conductor is created having outstanding intelligence ability. This message is sent to any part of the earth.

In satellite navigation United States and Russia has made outstanding developments. United States of America has its own NAVASTAR GPS (Global Positioning System) and Russia has its own Russian GLONASS. These are the only two satellite navigation systems which are fully functional. Europe is also working on project of satellite navigation system by developing its European Union's Galileo Positioning System. This development is in the initial stage. They have intention to complete this project up to 2014.

Now let's discuss some of the applications of satellite navigation. The main purpose of this technology was for military applications. The greatest use of satellite navigation is to guide the dangerous weapons to hit their accurate attack hence reducing the civilian casualties. This technology also facilitates forces to locate their accurate position when they in battle and facing the difficulty of fog of war. Due to its important satellite navigation is the important part of any military power.

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