Examrace

Learning About the Satellites and Their Orbits – Polar Geostationary and Sun-Synchronous YouTube Lecture Handouts

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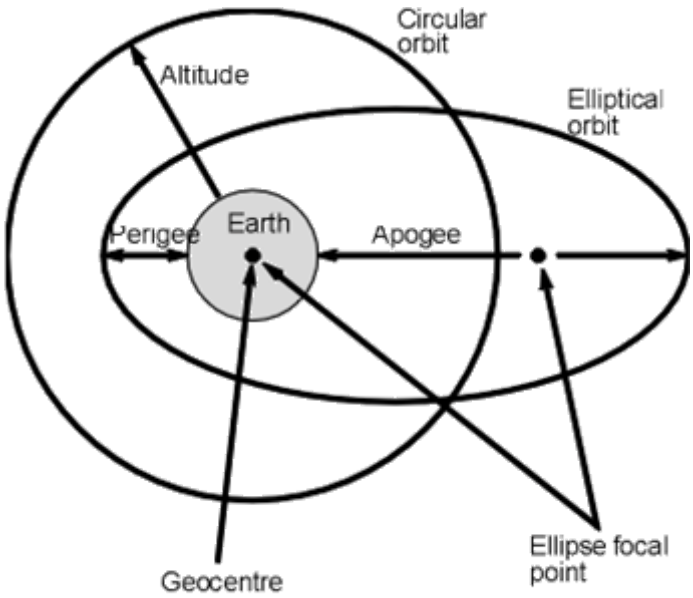
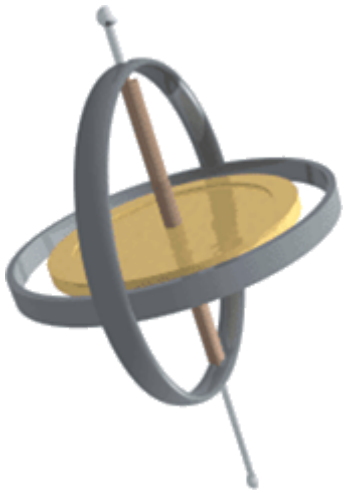
The Satellites and Their Orbits

- Satellite is an artificial object which has been intentionally placed into orbit.
- Orbit is a gravitationally curved trajectory of an object around a point in space.
- The orbit that is chosen for a satellite depends upon its application.
- Satellite's orbit works because of a balance between 2 forces.
- Orbit is a combination of the satellite's velocity.



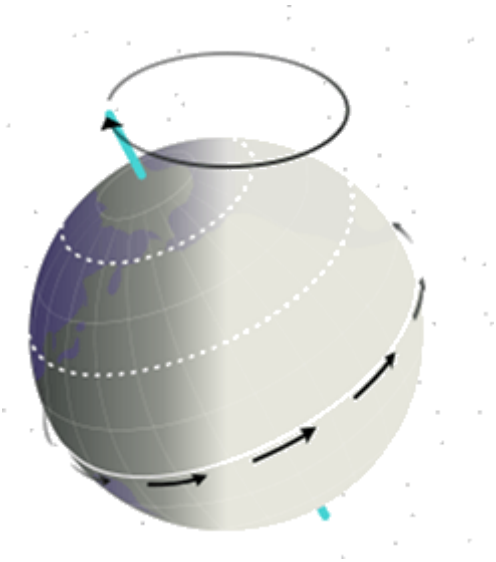
Satellite orbits



Precession of Earth

Precession is caused by the gravitational pull of the Sun and the Moon on the Earth.

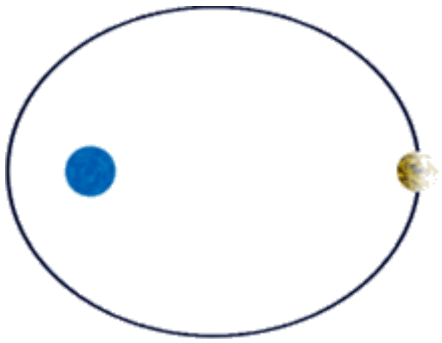
- Period of precession is about 26,000 years.
- Caused by the gravitational pull of the Sun and the Moon on the Earth.



Precession of Orbit

It is known as axial precession. It is the movement of the rotational axis of an astronomical body, whereby the axis slowly traces out a cone. For Earth, this is also known as the precession of the equinoxes, lunisolar precession, or precession of the equator.

- Nodal precession
- Sun synchronous



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