MOON
NEAR SIDE

Physical characteristics

Mean radius	1 737.1 km
Equatorial radius	1 738.1 km
Polar radius	1 736.0 km
Circumference (equatorial)	10 921.0 km
Surface area	3.793 0 × 10⁷ km²
Volume	2.195 8 × 10¹⁰ km³
Mass	7.342 × 10²² kg
Mean density	3.344 g/cm³
Sidereal rotation period (synchronous)	27.321661 d
Equatorial rotation velocity	4.627 m/s
Axial tilt to ecliptic	1.5424 °
Axial tilt to orbit plane	6.687 °
Albedo	0.136
Surface temperature	100-390 °K
Apparent magnitude (mean full moon)	−12.74

Orbital characteristics

Perigee	356 400-370 400 km
Apogee	404 000-406 700 km
Semi-major axis	384 399 km
Eccentricity	0.0549
Orbital period	27.321661 d
Synodic period	29.530589 d
Average orbital speed	1.022 km/s
Inclination to the ecliptic	5.145 °

Legenda

- Maria (Seas)
- Montes (Mountains)
- Craters (craters)
- Apollo missions' landing points

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