

Code samples: https://gist.github.com/AnnaGerber/e5f897b745e5f96da463

Rover Build instructions: <a href="https://t.co/x3]8ml0ddU

autonomously, using the ultrasonic sensor to avoid obstacles

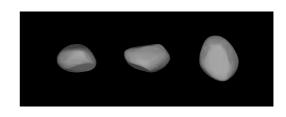
- ultrasonic sensor
 Program your bot to drive around an area
- Beep when an obstacle is detected using the
 - Use buttons to toggle what is displayed
- Display the light reading on the digit display
- Here are some ideas for programming your bot:

 Display the temperature on the digit display

Your challenge is to build a NodeRover to explore the asteroid Metis 9.

Welcome to International NodeBots day 2015!

Metis (9)



The Metidian surface composition has been estimated as 30-40% metal-bearing olivine and 60-70% Mi-Fe metal. Metis appears to be more dense than most other asteroids with a diameter close to 200 km. This may support the theory that Metis is the core remnant of a large evolved asteroid for which 90% of the original mass has been lost.

9 Metis is one of the larger main-belt asteroids. It is composed of silicates and metallic nickeliron, and may be the core remnant of a large asteroid that was destroyed by an ancient collision. Metis is estimated to contain just under half a percent of the total mass of the asteroid belt. Metis' direction of rotation is unknown at present, due to ambiguous data.

Physical characteristics	
Dimensions	222×182×130 km ^[3] 235×195×140 km ^{[4][5][6]} 190 km (Dunham) ^[1]
Mass	(1.47±0.20)×10 ¹⁹ kg ^[3]
Mean density	4.12±1.33 g/cm ^{3[3]}
Surface gravity	~0.070 m/s ²
Escape velocity	~0.11 km/s
Rotation period	0.2116 d (5.079 h) ^[1]
Albedo	0.118 (geometric)[1]
Temperature	~173 K max: 282 K (+9 °C) ^[7]
Spectral type	S-type ^[8]
Apparent magnitude	8.1 ^[9] to 11.83
Absolute magnitude (H)	6.28 ^[1]
Angular diameter	0.23" to 0.071"

From Wikipedia https://en.wikipedia.org/wiki/9 Metis
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