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Welcome to Lunarpedia!

A resource for reaching our stepping stone to the Solar System.

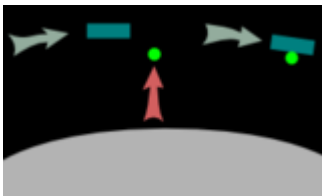
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Lunarpedia's mission is to cover everything we will need to know how to do on Luna (the Earth's moon) to set up self-sustaining bases and colonies, as well as related efforts, designs, and business models that may eventually lead there. Construction is always ongoing and you can help!

Are you new to Lunarpedia? Start here!

Featured article: Eddy Current Brake to Orbit | 24 October 2019



This device is the central feature of a spacecraft carrier that receives spacecraft into orbit as an aircraft carrier receives aircraft that land on its deck. It works by having a long slotted aluminum tube in orbit and

having the shuttle vehicle that is launched to orbital altitude enter this slot while the tube is moving by at orbital speed. The shuttle only needs to reach orbital altitude to enter the eddy current brake tube. That can be 10 kilometers on Luna at the perilune, an altitude that can be reached with 188 meters per second mission delta v, including gravity loss, a few seconds maneuvering fuel, and a small safety margin. Magnetic flux from permanent magnets deployed by the shuttle is directed at the walls of the tube causing a repulsive force and a retarding force.^{[1][2]} By reducing the speed of the shuttle relative to the orbiting aluminum tube, the shuttle is brought up to near orbital speed. Since eddy current braking loses effectiveness at low relative speeds, friction braking is used to give the shuttle the last 18 meters per second to reach orbital speed and match velocity with the aluminum tube. During all the time that the relative speed of the shuttle and the aluminum tube is greater than 18 meters per second, there is no contact between the material of the shuttle and the material of the aluminum tube.

...(read more)

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Lunarpedia's sister sites

- **Spacepedia** (<http://spacepedia.wiki>) - a general space wiki
- **Marspedia** (<http://marspedia.org>) - a Mars wiki
- **Exodictionary** (<http://exodictionary.org>) - a space dictionary

You Can Help!

- Find an identified needed article with a red link, click [here](#) for a list of missing but linked to articles, or create your article by typing in the topic name in the URL (such as *<http://www.marspedia.org/index.php?title=articlename>*.)
- Refine an article stub into something more complete.
- Or simply tidy up an article in this category.
- An offsite guide to Wiki formatting can be found [Here](http://en.wikipedia.org/wiki/Help:Editing) (<http://en.wikipedia.org/wiki/Help:Editing>).

New Users Start Here!

- **Lunarpedia QuickStart** - To browse the current articles.
- **Category Tree** - To overview the current categories of articles.
- Contact The Lunarpedia Team (email "lunarpedia at moonsociety dot org") to request a new account.
- You can click on your user name and create a user page to tell us about yourself.
- If you have questions or comments about any page then click on the "discussion" tab and type in the edit box. Make sure to sign all talk page discussion with a row of four tilde characters (eg. to sign your name type: ~~~~).

How to layout your pages

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- Or a less comprehensive, but much nicer looking, single page Wikipedia Cheatsheet (<http://upload.wikimedia.org/wikipedia/commons/0/05/Cheatsheet-en.pdf>), also as a PDF.
- Or an easy-to-dig page of wiki examples is at Wikitext Examples (http://meta.wikimedia.org/wiki/Help:Wikitext_examples)

These files are best saved to your hard drive and also printed. Right click and "Save Link As" to do that. Or, if you have the plugins installed you can just click and view in your browser. But please don't forget to come back here afterwards :-)

Signing your comments

When you add comments to User_talk pages, please sign using **
-- ~~~~**, this automatically adds your signature and a time and date stamp in UTC like so:

-- MikeD 09:15, 18 May 2007 (UTC)

Anonymous users (those not logged in) should also sign with some sort of ID, like for instance **
-- JoeBloggs ~~~~** which would result in something like the following:

-- JoeBloggs 09:15, 18 May 2007 (UTC)

About Lunarpedia

- Original research is allowed and encouraged
- On topic is our concern, not notability
- We're not concerned about encyclopedic neutrality
- On topic commercial articles are welcome

1. *Eddy current brake* at Wikipedia (http://en.wikipedia.org/wiki/Eddy_current_brake)

2. *Inductrack* at Wikipedia (<https://en.wikipedia.org/wiki/Inductrack>)

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