
Subject: Re: Lateral surface of elliptic cone
Posted by [MMMisha\[1\]](#) on Tue, 12 Apr 2011 21:18:29 GMT
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Thanks, Paolo

As I see it now, the calculation of lateral surface area is quite simple (I used IMSL_ELE - elliptic integral of the second kind). But how I can create the cone with elliptic base in IDL? MESH_OBJ seems to work with surfaces of revolution... or am I wrong?

Cheers

M.

On Apr 12, 10:16 pm, Paolo <pgri...@gmail.com> wrote:
> Unfortunately, that depends on the length of the perimeter
> of the ellipse, which can't be computed with elementary
> functions. However the elliptical integrals are not too hard
> to deal with and presumably can be approximated easily enough...
>
> A formula is given here:<http://mathworld.wolfram.com/EllipticCone.html>
>
> Ciao,
> Paolo
>
> On Apr 12, 3:33 pm, Michael Gilichinsky <gilichin...@gmail.com> wrote:
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>
>> Hello group, I would like to create right centered (not oblique) cone
>> that has an elliptical base and calculate its lateral surface area. Is
>> there an analytical solution or must it be approximated?
>
>> I suppose that MESH_OBJ is the starting point but maybe you have
>> better ideas...
>
>> Cheers
