
Subject: 3D Modeler for Arc Shape-
Posted by [dvtstew](#) on Mon, 28 Mar 2011 22:17:48 GMT
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Hi All,

EDIT: Thanks for the advice... I'm trying to hammer something out.

I am hoping so one can help me by completing a model of the "Indiana Arc" by Charles O Perry at Indiana University. I am not sure how large the scalability might be, but I am interested in a model between .75" (length and height, to anything up to 5" or so.

My CAD experience is limited (at best) so I'm not sure how difficult this type of shape might be. Thanks for looking!

]

Subject: Re: 3D Modeler for Arc Shape
Posted by [stop4stuff](#) on Tue, 29 Mar 2011 13:59:23 GMT
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I'd gladly help you out.

The sculpture should be easy enough to replicate, and I've been trying out some ideas to create a copy, but have not quite got it spot on. Are you in a position to be able to get more photos from different angles?

Cheers,
Paul

Subject: Re: 3D Modeler for Arc Shape
Posted by [dvtstew](#) on Tue, 29 Mar 2011 15:40:00 GMT
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I think I am going to try to go capture a video today of the arc so I can get a full view of it all. If I am unable to model it myself, I will certainly contact one of you. Thank you very much!

Also for fun, here is a list of Perry's other sculptures. Very eye catching
<http://www.charlesperry.com/sculpture/style/planar/>

Subject: Re: 3D Modeler for Arc Shape
Posted by [stop4stuff](#) on Tue, 29 Mar 2011 16:09:51 GMT
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Video would be great, I'm particularly interested in seeing the form of the middle inside top of the arc.

Perry's jewelry is also very interesting - certainly a lot of inspiration to be had

Paul

Subject: Re: 3D Modeler for Arc Shape
Posted by [sdeboer](#) on Wed, 30 Mar 2011 17:43:37 GMT
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Here below I have modeled the arch.
Are you interested?

I will upload it in my shop for you,

best regards,

Sander

File Attachments

1) [Indiana Arc.JPG](#), downloaded 101 times

Subject: Re: 3D Modeler for Arc Shape
Posted by [sdeboer](#) on Wed, 30 Mar 2011 17:52:54 GMT

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Here you'll find the measurements

File Attachments

1) [Indiana Arc drawing.JPG](#), downloaded 95 times

Subject: Re: 3D Modeler for Arc Shape
Posted by [stop4stuff](#) on Wed, 30 Mar 2011 18:02:00 GMT
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Sander,

Check out some photos of Perry's Indiana Arc - Indiana Art Museum on flickr and Charles Perry's website. The sculpture isn't a simple extrusion or twisted (mobius) extrusion, from what I figure there are four sheets of metal involved (planes), two follow obvious paths, the other two do not.

My PC is still crunching away (6 hours so far) slicing some of the parts to make this model... I won't know if I have the proportions correct until it has sliced another 2 parts!

Paul

Subject: Re: 3D Modeler for Arc Shape
Posted by [davgstew](#) on Wed, 30 Mar 2011 18:09:31 GMT
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^ Ya what he said. I am also seeing if I can hammer out a model myself... I've gotten a couple similar variations but I am enjoying playing around with different models... it's certainly a unique design interesting (and confusing) design.

Thanks for the attempt though.. I'm probably going to tackle this on my own for a bit and see if I can figure it out.

Subject: Re: 3D Modeler for Arc Shape
Posted by [sdeboer](#) on Wed, 30 Mar 2011 18:26:11 GMT
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To bad,

If you need any help, let me know, I know I can make it though. Or make it hollow, then it will become cheaper.

And with a base so you can place it on your desk.

regards

Sander

Subject: Re: 3D Modeler for Arc Shape
Posted by [stop4stuff](#) on Wed, 30 Mar 2011 18:47:05 GMT
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davstew@indiana.edu wrote on Wed, 30 March 2011 18:09^ Ya what he said. I am also seeing if I can hammer out a model myself... I've gotten a couple similar variations but I am enjoying playing around with different models... it's certainly a unique design interesting (and confusing) design.

Thanks for the attempt though.. I'm probably going to tackle this on my own for a bit and see if I can figure it out.

Follow-up to my PM -

Plane 1 runs -30 thru to 30 degrees.

Plane 2 runs 30 degrees thru to 150 degrees.

Render of planes 3 & 4 - 90 degree rotation is too much - maybe just 60 degrees would do.

Subject: Re: 3D Modeler for Arc Shape
Posted by [stop4stuff](#) on Fri, 01 Apr 2011 08:48:25 GMT
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I cracked it!

There's only 3 planes

Rough'n'ready model viewable here

