Surface Modeling

Surface modeling is a technique whereby the CAD model represents only the outside surfaces of product. It was one of the earliest methods of creating 3D models and preceded solid modelers (which represent the volume occupied by the product) by many years. They have the advantage of being able to represent very complex shapes and so are still in use today in many industries. Wildfire has the advantage of combining a solid modeler and a surface modeler into a single system. This means that you can use surface modeling techniques when needed for complex shapes and then convert the resultant model into a solid model and use solid modeling techniques for more basic engineering functions.

This tutorial describes how surface and solid modeling techniques can be combined in the design of a complex shaped product – an electric shaver. The tutorial assumes you are already familiar with the techniques associated with solid modeling covered in earlier tutorials.

Style Features

Style features are one way of creating surfaces in Wildfire. They are the least constrained way of designing allowing you to sketch in a freeform manner without worrying about dimensions.

Start ProEngineer. Create a new part called shaver using the mmns_part_solid option. Even though the shaver is a very free form shape there are elements which must interface to engineered parts such as the rotary cutters. The shape of these is largely defined by their function. Wildfire is quite capable of combining geometric and freeform shapes.

To start use the sketch tool to draw the shape shown in Figure 1. Note: the dotted construction circle is achieved by drawing a normal circle, selecting it with the tool and then pressing and holding the right mouse button and choosing construction from the pop-up menu.

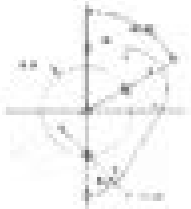

Figure 1 : Cutter Sketch

Now let's get straight into style. Choose INSERT > STYLE... or the icon. A new set of icons appears down the right of the screen which you will learn about in this tutorial. Also notice a STYLING menu is added to the main menu which has some more options for which there are no icons.

Since style features are intended for the early stages of the design process there are some nice features to support this. On the website where you found this tutorial you will find a picture called shaver which you should download and save in your working directory. This is a hand drawn sketch of the intended design (you can't beat paper and pencil for quickly recording ideas). We are going to use this as an underlay to help us in the design process.

From the STYLING menu choose TRACE SKETCH... and a dialog box will appear as shown in Figure 2. Click on the name FRONT in this dialog and an OPEN dialog will appear to allow you to find the picture you downloaded. When you open this picture it will appear attached to the front plane in the main window. In the Trace Sketch dialog click on HORIZONTAL. The picture will now be bounded by two horizontal yellow lines. Use the mouse to drag these so that they just touch the head of the shaver as shown in Figure 2. The sketch you have already drawn specifies that the overall height of the head (between these two yellow lines) should be 50mm. In the dialog box you will see a FIT area with a value of 200. This is the current distance between the lines. Change this value to 50 and press the FIT button and the size of the picture will change. Now the distance between the lines is 50mm. In the PROPERTIES area at the bottom of the dialog you will find more tools. Use the MOVE H & V winders to position the sketch so it matches curve you drew as shown in Figure 2. Click OK to finalise the trace.

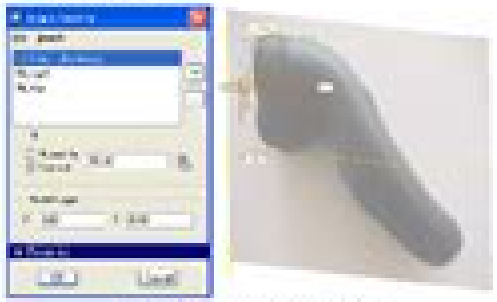

Figure 2 : A Trace Sketch

Proengineer Surface Modeling Practical Applications Sp 1999

N Colangelo

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