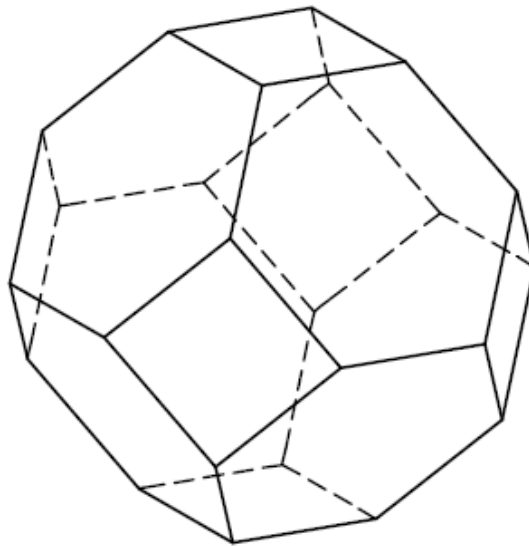


TECHNICAL REPORT:
Polyhedral Meshes implemented in *JIC^{Lib2}*



March, 2016

Jan Vermaak

Rev 1

Contents

	Page
1 Importing surface meshes	2

List of Figures

Figure 1 Raw surface mesh for a pump.	2
---	---

List of Tables

1 Importing surface meshes

JIC^{LIB2} imports surface meshes in the following formats:

- Wavefront .obj file
- Surface pneumonics

1.1 Wavefront object files

Wavefront object files have a simple format. They provide vertex and face information, with vertices shared between multiple faces. This type of surface is not yet suitable for a volume mesh generation because it would be too difficult for the internal mesher to define the surfaces with volumetric cells at locations where the surface mesh size is not comparable to the volume mesh that's mapping to it.

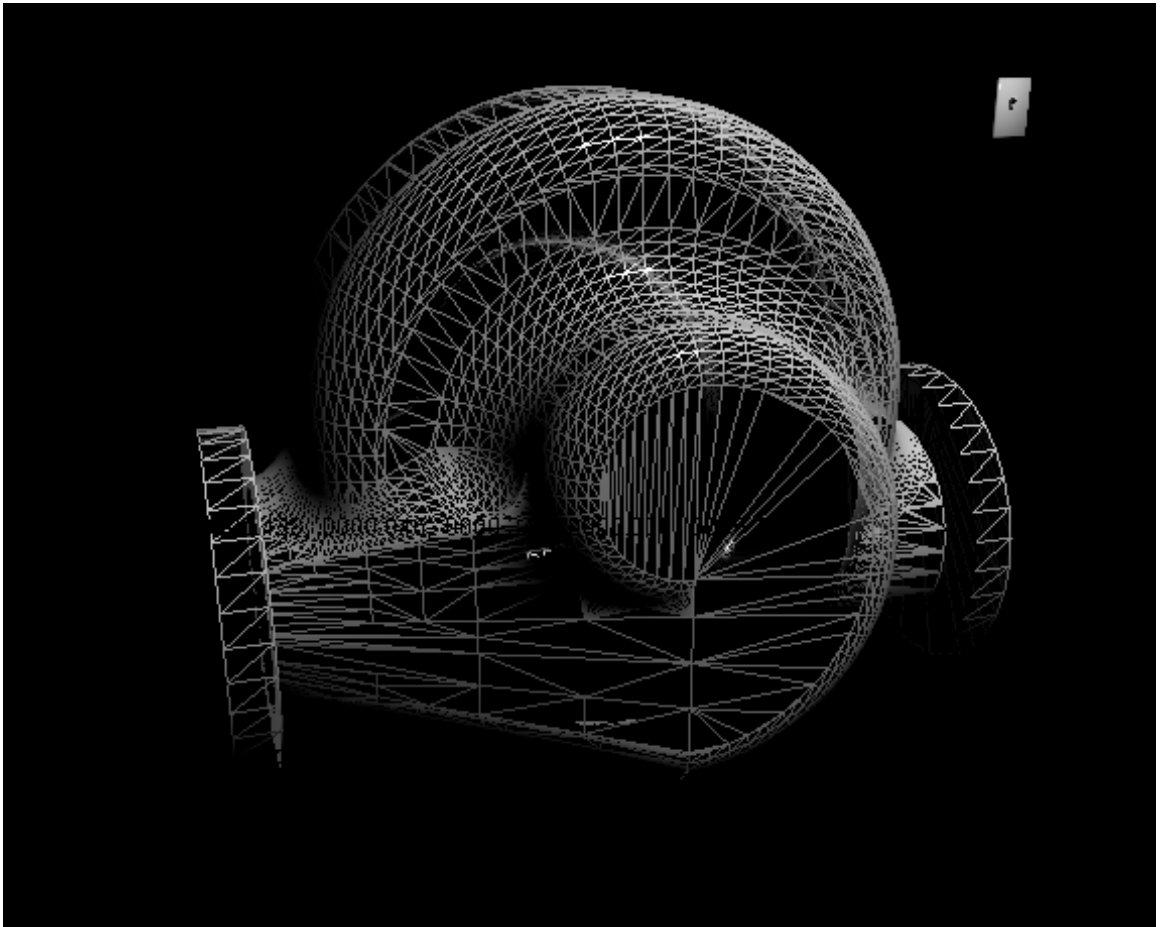


Figure 1: Raw surface mesh for a pump.