::文章简介::

摘要：运用控制加载规律的方法对离心压缩机叶轮回转面上的叶片型线进行设计，并且与采用Bezier曲线构造法设计的叶轮子午面轮廓相结合，确定出叶片型线的三维空间坐标。并对3种组合加载规律叶轮进行了数值模拟，得出了结论。关键词：离心式压缩机；叶片设计；加载规律 中图分类号：TH452 文献标识码：B 文章编号：1006-8155（2007）06-0036-04 Design Method and Numerical Calculation for Centrifugal Compressor Impeller Based on the Controlled Loading Laws Abstract: The method of controlled loading laws is applied to design blade profile in the revolution surface of centrifugal compressor impeller, and Bezier curve method is applied to design meridian planes of impeller. So the 3-D space coordinate has been determined according to the combination of them. Furthermore, the numerical simulation for the three kinds of impellers with different combined loading laws is carried out, and then the conclusion is obtained. Key words: centrifugal compressor; impeller; blade profile; loading laws

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