

液力传动研究现状分析与展望

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关键词: 液力传动 综述 发展

摘要: 综述了国内外近年来液力传动的研究进展和现状, 包括基于CFD的液力传动元件内部三维流动的数值模拟, 基于三维流场数值解的特性预测, 以及采用粒子图像测速(PIV)等先进测试技术对液力元件内部复杂流动的实验研究等。提出未来应进行基于三维流动理论的叶片设计、流场的瞬态特性研究等。
The situation and progress of the domestic and foreign research on hydrodynamic transmission in recent years were summarized. It includes the CFD numerical simulation of the inner 3-D flow in hydrodynamic transmission elements, the characteristic prediction based on the numerical solution of the 3-D flow field, and the experimental study on the inner complex flow in hydrodynamic elements by means of the advanced flow measurement technique, such as particle image velocimetry (PIV). Finally, the further research directions were put forward as follow: blade design based on 3-D flow theory and transient characteristic study of the flow field.

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