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超跨音压气机研究的发展

崔济亚

北京航空航天大学动力系 北京 100083

## DEVELOPMENTS OF SUPERSONIC AND TRANSONIC COMPRESSOR

Cui Ji-ya

Department of Power, Beijing University of Aeronautics and Astronautics, Beijing, 100083

摘要

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Supporting Info

摘要 本文就近20年来超跨音压气机级研究的发展,进行了一定范围内的调研,对设计与性能作出一些分析与讨论,并提出进一步研究的建议,以供设 计参考。

关键词: 压气机 压比 效率 喘振裕度

Abstract: The recent developments of transonic and supersonic compressor over the world are briefly reviewed and discussed. The roles of various stages are clearly represented on an efficiency versus pressure ratio diagram and also on a normal shock compression efficiency and work coefficient versus Mach number reference diagram. The traditional diffusion factor Dserves as a rough guide only and new criteria or coefficients are needed to reflect supersonic cascade losses more nearly. Further developments from pressure ratio 2:1 upward with efficiency higher than 85% are prospective. Comparative research of stages with positive, zero and negative prewhirls is proposed. Importance of studying physical mechanism and measures to improve surge margin is finally stressed.

Keywords: compressor pressure ratio efficiency surge margin

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