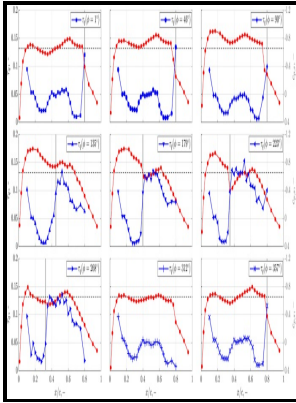


# Use of hot-film technique for boundary layer studies on a 21% thick airfoil

National Aeronautical Establishment - Formats and Editions of The use of hot



Description: -

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Boundary layer flow

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Aeronautical note -- NAE-AN-45 use of hot-film technique for boundary layer studies on a 21% thick airfoil

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## Artigos de revistas:

These modifications to the approach presented in NASA TR R-368 and NASA TM X-2458 yield a software package with high computational efficiency and flexibility. For flow over a flat plate, the method is applicable for an arbitrarily prescribed distribution of temperature along the surface and for any given constant Prandtl number close to unity.

## The Use of Hot

This study aims to show that whether a flow is laminar or turbulent, laminar and 2D or turbulent and 3D, microflaps actuated by reversing flow is a robust means of controlling flow separation. Lei, Juanmian, Qingyang Liu e Tao Li.

## The Use of Hot

Elastic flaps were attached in rows at different positions on the upper profile surface.

## DTIC ADA184412: The Use of Hot

The first part of the paper deals with experimental methods and apparatus, measurements of turbulence and sound, and studies of transition. Moreover, this result is found to be part of the more general result that a favorable pressure gradient is destabilizing for very cool walls when the Mach number is less than that for complete stability.

## The Use of Hot

The revised rates show growth occurring further upstream than Shapiro found. We argue on physical grounds and through bifurcation analysis that these additional solutions are not tenable.

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