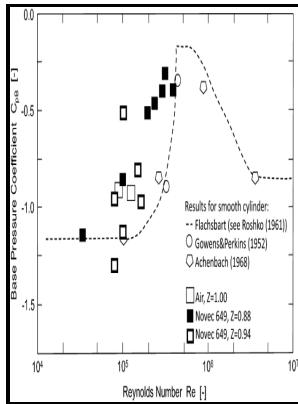


# Surface temperature and pressure distributions on a circular cylinder in supersonic cross-flow

U.S. Naval Ordnance Laboratory - Heat transfer from a circular cylinder to mixtures of water and ethylene glycol



Description: -

-Surface temperature and pressure distributions on a circular cylinder in supersonic cross-flow

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180 Surface temperature and pressure distributions on a circular cylinder in supersonic cross-flow

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This edition was published in 1953



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## A correlation of convective heat transfer and recovery temperature data for cylinders in compressible flow

The normalized recovery temperature is found to be a function only of the free-stream Knudsen number for Mach numbers greater than 0. The cylinder is uniformly heated by passing a direct electric current through a thin surface heater. L'interaction entre l'écoulement et le transfert de chaleur est étudiée.

### Hypersonic and High

This second edition has updated figures and data to complement the presentation and discussion of the fundamentals.

### [PDF] Measurements of Fluctuating Pressures on a Circular Cylinder in Subsonic Crossflow

In particular, the boundary-layer effects on the heat transfer, such as transition from laminar to turbulent flow or boundary-layer separation, are considered in conjunction with the distributions of local static pressure and skin friction.

### Heat transfer from a circular cylinder to mixtures of water and ethylene glycol

Illustrations are drawn from the observations of other researchers.... Обсуждается взаимосвязь между потоком воздуха и переносом тепла. Eine Methode zur Schätzung der Rückgewinntemperatur für alle Machzahlen wird vorgeschlagen.

### [PDF] Measurements of Fluctuating Pressures on a Circular Cylinder in Subsonic Crossflow

Empirical formulas are presented for the Nusselt number, recovery factor, and slope of the Nu-Re correlation. Finally, this book is for you — the reader — to take you through an enjoyable tour of the world of Hypersonic and High-Temperature Gas Dynamics. Presently Assistant Professor, Department of Aerospace Engineering Sciences, University of Colorado, Boulder, Colo.

## **Heat transfer from a circular cylinder to mixtures of water and ethylene glycol**

В частности, зависимость процесса переноса тепла от таких эффектов пограничного слоя, как переход от ламинарного течения к турбулентному или срыв пограничного слоя, рассматривается совместно с распределением локального статистического давления и поверхностного трения. New subjects discussed in the second edition include shock-shock interactions, hypersonic waveriders, and aspects of hypersonic propulsion devices, always in light of the fundamentals emphasized in the main part of the book.

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