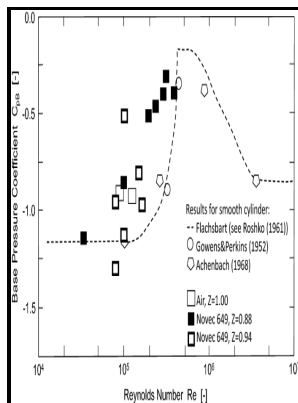


Surface temperature and pressure distributions on a circular cylinder in supersonic cross-flow

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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180Surface 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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Tags: #Heat #transfer #from #a #circular #cylinder #to #mixtures #of #water #and #ethylene #glycol

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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