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VORTEX TUBES, A BIBLIOGRAPHY

Livermore, California

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Brigitta M. Dobratz

April 1964

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INTRODUCTION

Since the issuance of a patent to G. J. Ranque in 1934 for a vortex-tube cooling device, little use was made of this effect until the article by R. Hilsch appeared in the Review of Scientific Instruments in 1947 on "The use of expansion of gases in a centrifugal field as cooling process." In recent years this process has found increasing application with expanding research in space exploration and study of refrigerating systems.

This bibliography contains references on vortex tubes, their construction, application, and operation, as well as theoretical aspects of the Ranque-Hilsch effect. References were compiled from the following abstracts for the years 1950 - 1963:

AMR - Applied Mechanics Reviews

ASTI - Applied Science and Technology Index

CA - Chemical Abstracts

EI - Engineering Index

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No claim is made for exhaustiveness of this bibliography. Suggestions from readers for inclusion of additional titles will be gratefully received.

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100. WATER FLOW IN TUBES

C. Foure

Société Nationale d'Etude et de Construction de Moteurs
d'Aviation

2nd quarterly report July-Sept. 1960, 7 p.

TID-12475 (AEC-202/Euratom 86)

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Addendum

AXIAL FLOW IN A VORTEX

J. B. Nuttall

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