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PHYSICS

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DIRECT ENERGY CONVERSION DEVICES

A Literature Search

Compiled by
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DIRECT ENERGY CONVERSION DEVICES

Introduction

Included are 208 unclassified references on nuclear direct energy conversion devices. Major emphasis is placed on auxiliary power devices suitable for use in satellites including reports on nuclear batteries, thermoelectric cells, thermionic conversion, and all phases of the SNAP program, although not all SNAP devices employ direct conversion. This search supersedes a previous search, TID-3540, Isotopic Power and Thermionic Conversion, compiled by Raymond L. Scott in December 1959.

The report references are arranged alpha-numerically by report number behind the name of the issuing agency. The published references are arranged by Nuclear Science Abstracts (NSA) abstract number.

The AEC sponsored reports may be examined at any of the AEC depositories listed in NSA. They may also be purchased as indicated from the Office of Technical Services (OTS), Department of Commerce, Washington 25, D. C. A full-size printed copy is available for the reports that have a single price listed; other reports are available as photostat (ph) or microfilm (mf) copies. Microcopies of these reports may also be available from Microcard Editions, Inc., West Salem, Wisconsin.

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AN ENRICHED UO_2 -ZrH CRITICAL ASSEMBLY. M. V. Davis, A. W. Thiele, and L. I. Moss. Nov. 1, 1960. 34p. (NAA-SR-5610) \$1.00(OTS) NSA 15-4715

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SNAP-2 HG-PIPE AND HG WEIGHT AND PRESSURE DROP TO AND FROM THE CONDENSER RADIATOR. R. D. Welsh. Dec. 18, 1959. 7p. (NAA-SR-Memo-4778).

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