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for
Thermal Neutron Scattering
(Second Edition)

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Bibliography for Thermal Neutron Scattering

Second Edition

Summary

The Neutron Thermalization Group of Japanese Nuclear Data Committee has published the first edition of "Bibliography for Thermal Neutron Scattering" (JAERI 4043, EANDC (J) 9 "AL"). This second edition contains the references included in the first edition and all additions collected by the group from October 1967 to March 1969. In the same manner as the first edition it contains references to the literature not only on measurements and calculations of thermal neutron scattering cross sections but also on the basic studies of lattice dynamics, and liquid and molecular dynamics in so far as it is concerned with the thermal neutron scattering. However, references on the magnetic scattering of thermal neutrons are excluded from this bibliography. The references contained in this bibliography are needed for the data evaluation which is one of the main activities of the Committee.

January, 1969

The Thermalization Group,*
Japanese Nuclear Data Committee

熱中性子散乱文献集 (第2版)

要 旨

シグマ研究委員会の熱化グループでは、すでに熱中性子の散乱断面積の測定および計算、あるいはそれに関連ある格子振動、液体および分子運動の基礎的研究についての文献をまとめ「熱中性子散乱文献集」第1版を出版している。この第2版では第1版に集録した文献のほかに、1967年10月から1968年12月までの間に新しく集められた文献をまとめて再整理したものである。

1969年1月

シグマ研究委員会・熱化グループ**

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Bibliography for Thermal Neutron Scattering

Second Edition

1. General Discription

Collection of informations is made by the members, who are assigned to read specific literatures, filling up Data Sheets which contain the following items ;

1. Authors
2. Reference
3. Title
4. Laboratory
5. Materials
6. Range of neutron energy and scattering angle
7. Temperature
8. Method
9. Results

This report consists of a list of Authors, Titles and References classified according to the species of materials, which are extracted from the above sheets. Reference sources include as many publications as available in the country and from abroad. They are journals, conference proceedings, report series and books in concern with the thermal neutron inelastic scattering.

This documentation activity will be continued for the future.

2. Remarks

1. References in this list are classified according to the species of materials. Thus when any one literature reports on a number of materials, it is listed for each material respectively. The international chemical symbols are adopted for indication of the materials, except some chemical compounds and general articles which are easily identified by the simple abbreviation of English names.
2. Classification number is indicated by five digit numbers. First two digits show the year and the last three digits indicate serial number for each material.
3. Names of authors are spelled in English.
4. Titles are also spelled in English. When a reference is written in other language, it is translated in English.
5. Refence abbreviations follow Journal Abbreviations of Nuclear Science Abstracts. Books and conference proceedings are indicated by full titles, publisher and years, except the following proceedings ;
 - i) ISNSL Inelastic Scattering of Neutrons in Solids and Liquids, IAEA, Vienna
 - ii) ISN Inelastic Scattering of Neutrons, IAEA, Vienna
 - iii) PICG Proceeding of the International Conference on the Peaceful Uses of Atomic Energy, United Nations, Geneva

Editor M. SAKAMOTO

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