

# Experimental Neuron Thermalisation

1979

P. A. EGELSTAFF AND M. J. POOLE

with an earlier manuscript approval for P. SCHOFIELD



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# Experimental Neutron Thermalisation

**Donald E. Parks**



## **Experimental Neutron Thermalisation:**

**Experimental Neutron Thermalisation** Peter A. Egelstaff, M. J. Poole, 1969 **Proceedings of the Brookhaven Conference on Neutron Thermalization: Experimental aspects of transient and asymptotic phenomena** Brookhaven National Laboratory, 1962 Neutron Thermalization Measurements Abd El-Razik Zaki Hussein, 1969 **Experimental Study of the Neutron Thermalisation Process in Time in Hydrogenous Moderators**, 1967 **Experimental Reactor Physics** A. Edward Profio, 1976-02-03 Experimental Study of the Neutron Thermalisation Process in Time in Hydrogenous Moderators, 1967 **Neutron Thermalization and Reactor Spectra** International Atomic Energy Agency, 1968

*Analytical and Experimental Investigations of the Behavior of Thermal Neutrons in Lattices of Uranium Metal Rods in Heavy Water* R. Simms, Theos Jardin Thompson, David D. Lanning, 1963 Measurements of the intracellular distribution of the activation of foils by neutrons were made in lattices of 1 4 inch diameter 1 03% U 235 uranium rods moderated by heavy water with bare and cadmium covered foils of gold depleted uranium lutetium europium and copper The measurements were made in the M I T Heavy Water Lattice Facility with source neutrons from the M I T Reactor Two lattices were studied in detail in this work The more closely packed lattice had a triangular spacing of 1 25 inches and the less closely packed lattice had a triangular spacing of 2 5 inches The results of the experiments were compared to one dimensional 30 energy group THERMOS calculations based on the available energy exchange kernels The comparison indicated that the approximation that the hexagonal cell may be replaced by an equivalent circular cell the Wigner Seitz approximation can lead to serious discrepancies in closely packed lattices moderated by heavy water A modified one dimensional and a two dimensional calculation were shown to predict the intracellular activation distribution in the closely packed lattice An analytical treatment of the problem of the flux perturbation in a foil was developed and compared to the experimental results obtained by using gold foils of four different thicknesses in the lattice cell the method was shown to be adequate An analytical method to treat the effect of leakage from an exponential assembly was formulated the results indicated that only in small exponential assemblies would leakage be a significant problem in intracellular flux measurements A method was developed to predict the cadmium ratio of the foils used in the lattice cell comparison with available measurements with gold foils indicated good agreement between theory and experiment except for a lattice having very large ratios of moderator volume to fuel volume e g 100 1 Calculations of the fuel disadvantage factor by the method of successive generations for gold lutetium and europium detector foils were compared to the results of THERMOS calculations because THERMOS was shown to predict the experimental distributions The comparison indicated that the method of successive generations is a good alternative to the THERMOS calculation if all that is required is 17 and the thermal utilization **Nuclear Science Abstracts**, 1970 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS database which began in 1970 NSA existed as a printed product Volumes 1 33 initially created by

DOE's predecessor the U S Atomic Energy Commission AEC NSA includes citations to scientific and technical reports from the AEC the U S Energy Research and Development Administration and its contractors plus other agencies and international organizations universities and industrial and research organizations References to books conference proceedings papers patents dissertations engineering drawings and journal articles from worldwide sources are also included Abstracts and full text are provided if available

*Differential Neutron Thermalization* ,1963 *Neutron Thermalization and Reactor Spectra* ,1968 *Slow Neutron Scattering and Thermalization, with Reactor Applications* Donald E. Parks,1970 *Proceedings of the Brookhaven Conference on Neutron Thermalization, April 30-May 2, 1962: Neutron spectra in lattices and infinite media* Brookhaven National Laboratory,1962 **Proceedings of the Brookhaven Conference on Neutron Thermalization, April 30-May 2, 1962** Brookhaven National Laboratory,1962 *Exponential and Critical Experiments* International Atomic Energy Agency,1964 *Reactor physics* ,1965 **Research Studies at Quaid-i-Azam University, Islamabad** Muhammad Javed,1987 **Transatom Bulletin** ,1969 *Differential Neutron Thermalization. Annual Summary Report, October 1, 1960 Through September 30, 1961* ,1961 Activities in a program of studies on the interaction mechanisms by which neutrons exchange energy with H atoms are reported Above about 1 ev these may be regarded as collisions of neutrons with free H atoms but at lower energies they must be regarded in terms of excitations causing molecular thermal motions determined by binding forces Neutron thermalization is concerned with the distribution of energy levels and the probability of excitation by neutron collision Particular emphasis was placed on studies of scattering in very low temperature materials where binding effects are most apparent and of low energy neutron scattering Experiments in these areas of interest were carried out with neutrons from a pulsed linear accelerator Energy distributions in various moderating materials at 295 to 4 deg K were studied by time of flight analysis Included are discussions of experimental techniques experimental data and conclusions concerning the dynamic behavior of various hydrogenous substances J R D [The Slowing Down and Thermalization of Neutrons](#) Michael Maurice Rudolph Williams,1966

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