

Neutron Time-of-Flight Spectroscopy

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The time-of-flight technique is employed in two of the instruments at the NIST Cold Neutron Research Facility (CNRF). A pulsed monochromatic beam strikes the sample, and the energies of scattered neutrons are determined from their times-of-flight to an array of detectors. The time-of-flight method may be used in a variety of types of experiments such as studies of vibrational and magnetic excitations, tunneling spectroscopy, and quasielastic scattering studies of diffusional behavior; several examples of experiments are dis-

cussed. We also present brief descriptions of the CNRF time-of-flight instruments, including their mod*o* operand*o* and some of their more pertinent parameters and performance characteristics.

Key words: diffusion; hydrogen in metals; inelastic scattering; neutron choppers; neutron inelastic scattering; quasielastic neutron scattering; time-of-flight spectroscopy; tunneling spectroscopy; vibrational spectroscopy.

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1. Introduction

The neutron time-of-flight technique has a long and distinguished history. In 1935, only 3 years after the discovery of the neutron, a pair of rotating disks was used to "prove by direct measurement that many of the slow neutrons [from a moderated Rn-Be source] are in the thermal velocity range" [1]. With the advent of the nuclear reactor (in 1942), more difficult measurements became possible, and a very different type of chopper was used by Enrico Fermi and his collaborators to determine the energy dependence of the absorption cross section of boron [2]. By 1960 relatively sophisticated phased chopper machines were being used to measure the scattering properties of materials such as water and polyethylene [3]. Much of the motivation for these experiments reflected the need for "scattering law" data for numerical calculations of the behavior of neutrons within nuclear reactors. Since the mid-sixties the emphasis has steadily shifted to the study of more and more complicated materials, and several kinds of time-of-flight instruments have been developed in order to make possible many different types of experiments [4,5].

The time-of-flight (TOF) method complements the triple-axis spectrometer (TAS) technique which is discussed elsewhere in this volume [6]. The TAS is ideally (but by no means only) suited to the study of excitations in oriented samples at specific points in (Q, ω) phase space. On the other hand TOF instruments may be used to explore rather large regions of phase space because many detectors simultaneously collect neutrons over a wide range of values of the scattered energy. The price paid for the much larger phase space volume is that the intensity on the sample is significantly reduced because the incident beam is pulsed. In another respect the TOF method complements the very high resolution backscattering and neutron spin echo techniques [7].

In Sec. 2 we present the basic principle of a time-of-flight measurement at a reactor-based spectrometer. We then illustrate several uses of the technique, describing a variety of applications in different fields of research. In Secs. 4 and 5 we describe the more important features of the TOF instruments at the CNRF, aspects of their

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