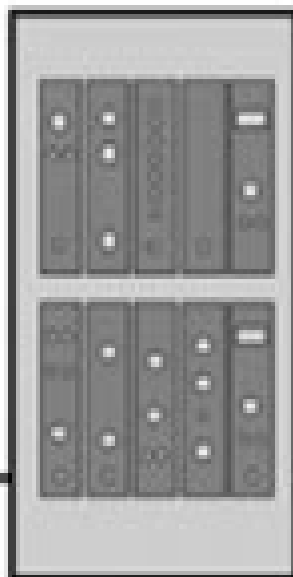
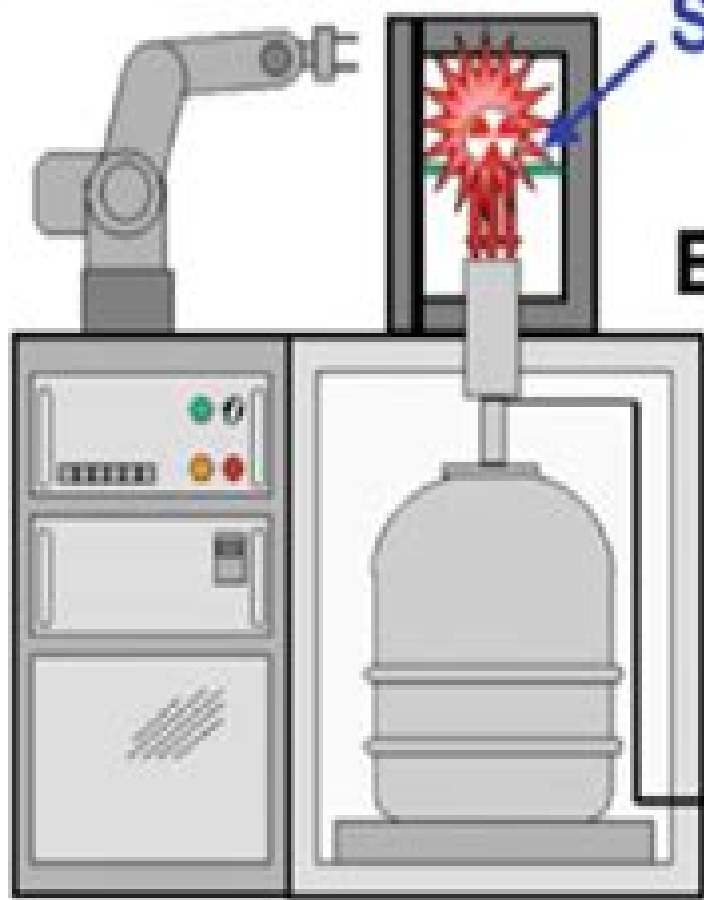
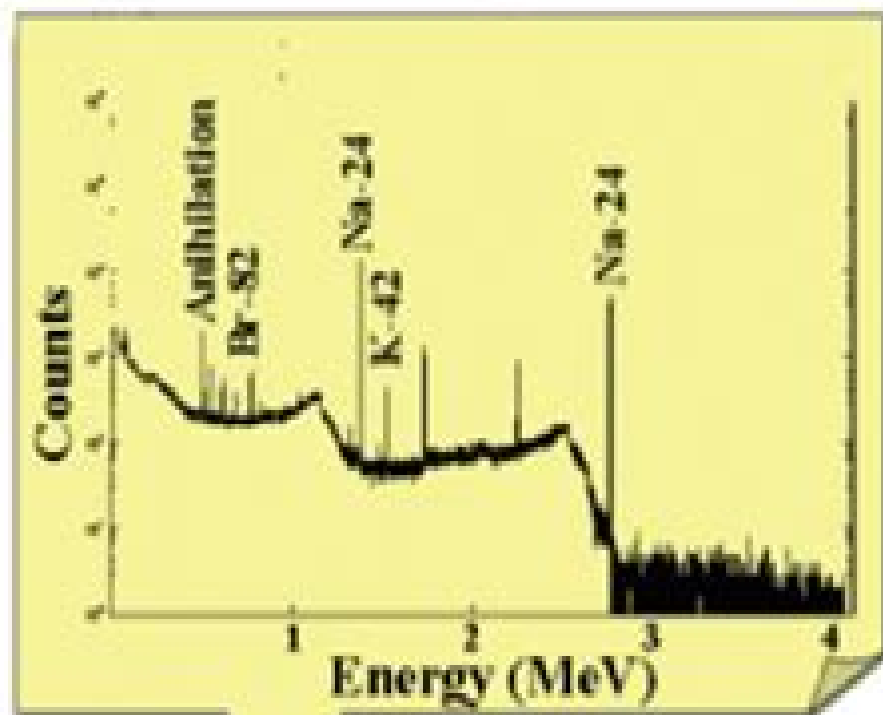


A**Sample****B****C****D**

Activation Analysis With Neutron Generat

Julius Csikai



Activation Analysis With Neutron Generat:

Neutron Generators for Analytical Purposes International Atomic Energy Agency, 2012 This publication addresses recent developments in neutron generator NG technology It presents information on compact instruments with high neutron yield to be used for neutron activation analysis NAA and prompt gamma neutron activation analysis in combination with high count rate spectrometers Traditional NGs have been shown to be effective for applications including borehole logging homeland security nuclear medicine and the on line analysis of aluminium coal and cement Pulsed fast thermal neutron analysis as well as tagged and timed neutron analysis are additional techniques which can be applied using NG Furthermore NG can effectively be used for elemental analysis and is also effective for analysis of hidden materials by neutron radiography Useful guidelines for developing NG based research laboratories are also provided in this publication **Activation Analysis with**

Neutron Generators Sam S. Nargolwalla, Edwin P. Przybylowicz, 1973 **Neutron Generators for Analytical Purposes**, 2012 This publication addresses recent developments in neutron generator NG technology It presents information on compact instruments with high neutron yield to be used for neutron activation analysis NAA and prompt gamma neutron activation analysis in combination with high count rate spectrometers Traditional NGs have been shown to be effective for applications including borehole logging homeland security nuclear medicine and the on line analysis of aluminium coal and cement Pulsed fast thermal neutron analysis as well as tagged and timed neutron analysis are additional techniques which can be applied using NG Furthermore NG can effectively be used for elemental analysis and is also effective for analysis of hidden materials by neutron radiography Useful guidelines for developing NG based research laboratories are also provided in this publication **Activation Analysis with a Neutron Generator** Hugh P. Dibbs, 1965 14-MeV Neutron

Generators in Activation Analysis George John Lutz, 1970 The literature of 14 MeV neutron generators in activation analysis is reindexed in detail with respect to Element Determined Matrix Analyzed and Technique Used for precise literature searching An author index is included Candidates for inclusion in this bibliography were selected from the technique category Accelerator Sealed Tube Neutrons Author **Activation Analysis with Neutron Generators (Volume 39).**

Nargolwalla SS., 1973 **Handbook of Fast Neutron Generators, Volume I** Julius Csikai, 1987-09-30 This handbook reviews those problems and methods of science and technology where the neutrons produced in the $3\text{H} + \text{d} \rightarrow \text{N} + 4\text{He}$ and $2\text{H} + \text{d} \rightarrow \text{n} + 3\text{He}$ reactions play the main role This two volume set Discusses possible applications of these small generators as thermal neutron sources Enables suitable topics to be selected for education and training provides a wide range of experiments with the detection of neutrons and charged particles including the study of shielding and the generator technology itself Gives a review of important operational characteristics of neutron generators and the necessary instruments connected with these applications Provides an account of recent results of fast neutron activation analysis in various fields *A Study of Activation Analysis Capabilities of the Neutron Generator with a Tritium Target in Determining the Source of Certain Drugs*

Ronald L. Presdorf, 1970 **Activation Analysis** Zeev Alfassi, 1990-06-22 This timely publication covers prompt measurements as well as delayed activation measurements used in chemical analysis of the elements. It describes the various possibilities of activation: neutrons, charged ions, and photons. Also discussed are the advantages and disadvantages of each activation method. These volumes are important for those in geology, archaeology, biology, analytical chemistry, radioanalytical, and nuclear chemistry, the semiconductor industry, and others. Pulsed Neutron Sources for Neutron Activation Analysis of Special Nuclear Materials Alexander Douglas Brand, 2010 The identification of the fission products of ^{235}U is not possible through prompt gamma ray neutron activation analysis because of the increased background and much larger number of counts of the prompt gamma rays as compared to the delayed gamma rays. Where prompt gamma ray analysis falls short, delayed gamma ray analysis picks up the slack. Delayed gamma ray neutron activation analysis allows for the prompt gamma rays that result from the irradiation of ^{235}U and saturate the spectrum to be removed from the spectrum by only collecting data when the sample is not in direct contact with neutrons. For long-lived fission products, this can be done by irradiating the sample for a given amount of time, removing it from the neutron source, and counting delayed gamma rays that leave the sample after irradiation. However, for short-lived fission products, half-lives on the order of milliseconds to seconds would decay away before the delayed counting could be started. Therefore, it is in our interest to develop a system where the sample can be irradiated and counted back-to-back to allow for the short-lived fission products to be identified during their decay. We have developed slow and fast pulsing systems; the first of which involves a beam chopper and our thermal neutron beam exiting beam port three of our reactor, and the second of which involves a neutron generator system. The beam chopper is a borated aluminum disc with two windows to allow the beam to pass through, which is rotated at anywhere between 0.5 and 10 Hz. The neutron generator system uses a deuterium-tritium source that can be pulsed between 250 and 20,000 Hz. This difference allows for the collection of the gamma rays from different ranges of short-lived fission products. Both of these systems are gated according to the pulses of the beams and they allow for the accurate collection of delayed gamma rays that would otherwise be masked by much stronger prompt gamma rays that result from the fission of ^{235}U .

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