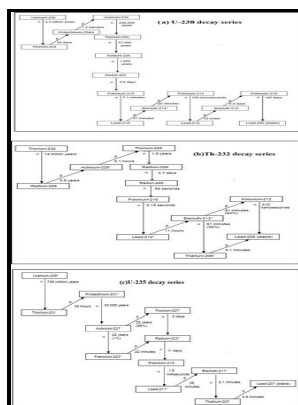


Radon measurements by etched track detectors - applications in radiation protection, earth sciences, and the environment

World Scientific - Study of Radionuclides and Radon Exhalation Rate in Soil and Sand Samples from Tiba, Luxor, Governorate



Description: -

- Nuclear track detectors.

Radon -- Measurement -- Technique. Radon measurements by etched track detectors - applications in radiation protection, earth sciences, and the environment

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Radon Measurements By Etched Track Detectors

The reason for current interest is due to the fact that external radiation exposures from naturally occurring radionuclides materials NORM contribute, on average, of about 10% of the average annual dose to the human body from all radiation sources.

Study of Radionuclides and Radon Exhalation Rate in Soil and Sand Samples from Tiba, Luxor, Governorate

Betonwerk Fertigteile Technology, 47, 468-473. Report to the General Assembly, with Scientific Annexes, United Nations, New York. The surface exhalation and mass exhalation rates for radon from these different samples were reflected by their radium contents.

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Therefore, an accurate measurement of ^{232}Th and ^{226}Ra radiological activity concentrations has been made, whereas a true measurement of ^{40}K concentration was achieved. The efficiency of the detector represents the probability that the emitted gamma-ray contributes to the line in the spectrum. The results indicate that the dose rates at 1 m above the ground from terrestrial sources in all samples under investigation were 37.

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The overall average of mass exhalation rate for samples under investigation is 1. This shield serves in reducing the background-radiation for the measuring sample to less than 1%. Exposure to radon gas, which is present in the environment naturally, constitutes over half the radiation dose received by the general public annually.

Radon Measurements By Etched Track Detectors

These values present no hazards to human. Exposure to Radiation from Natural Radioactivity in Building Materials. While, radon exhalation rate has been measured by Alpha GUARD.

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Conclusion High purity germanium was exploited to determine activity concentration for naturally occurring ^{226}Ra , ^{232}Th , and ^{40}K radioisotopes in two types of samples soil, sand from Tiba area in Luxor governorate. Although this is not only the most widely used method but is also the simplest and the cheapest, yet there is at present no book available on the market globally, devoted exclusively or largely to the methodology of, and dealing with the results obtained by, the SSNTD technique. The formatter will need to create these components, incorporating the applicable criteria that follow.

Radon Measurements By Etched Track Detectors

Results show the average activity concentrations of ^{226}Ra , ^{232}Th , and ^{40}K are 24. Mingqiang, 1988 Natural Radiation and Radioactivity in China. The activity concentrations have been calculated from the intensity of each line considering the size and mass of the sample, the branching ratio for the gamma-decay, and the efficiency of the detector.

Radon Measurements By Etched Track Detectors

The specific activity of ^{226}Ra of the samples has been determined through its daughters ^{214}Pb and ^{214}Bi via the intensity of the 295.

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