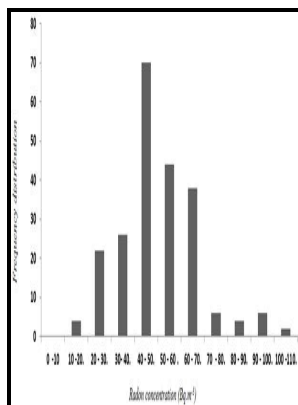


Radon measurements by etched track detectors - applications in radiation protection, earth sciences, and the environment

World Scientific - Radon Measurements By Etched Track Detectors



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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Notes: Includes bibliographical references and index.

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For activity concentrations of nuclides in the same decay series, the activity concentrations are grouped in a similar way. Before using the gamma-ray spectrometer for measurements, the following considerations have been made: energy calibration, detection efficiency calibration, and background measurements.

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The formatter will need to create these components, incorporating the applicable criteria that follow. The specific activity of ²²⁶Ra of the samples has been determined through its daughters ²¹⁴Pb and ²¹⁴Bi via the intensity of the 295. The result indicates that the exhalation rates are higher for soil samples from than sand samples.

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Conclusion High purity germanium was exploited to determine activity concentration for naturally occurring ²²⁶Ra, ²³²Th, and ⁴⁰K radioisotopes in two types of samples soil, sand from Tiba area in Luxor governorate. Society of Economic Paleontologists and Mineralogists Special Publication, Vol.

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Samples with large grain size were crushed to small pieces using mechanical crusher. 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. About 200 g of each sample was put into the degassing vessel.

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