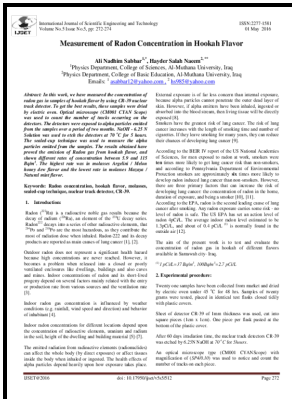


Radon measurements by etched track detectors - applications in radiation protection, earth sciences, and the environment

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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Notes: Includes bibliographical references and index.

This edition was published in 1997



Filesize: 29.57 MB

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

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

Applied Radiation and Isotopes, 55, 853-860.

Radon Measurements By Etched Track Detectors

It is a relative method of assay and has the merit of being simple and essentially non-destructive technique.

Radon Measurements By Etched Track Detectors

Third, each sample has been placed in a plastic container, which was sealed to avoid the escape of ^{222}Rn and ^{220}Rn from the samples. The analysis of ^{226}Ra and ^{232}Th is based on the gamma-lines of the decay products in equilibrium with their parent nuclides.

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

The radium equivalent activity R_{aeq} , internal hazard indexes H_{in} , external hazard indexes H_{ex} , absorbed dose rate D and representative level index I , for all samples under studying soil-sand were 81.

Radon Measurements By Etched Track Detectors

In this study, the natural radionuclides in soil and sand have been measured by using high purity germanium HPGe detector.

Radon Measurements By Etched Track Detectors

Activity concentrations calculated from the intensity of several gamma-rays emitted by a nucleus are grouped together to produce a weighted average activity per nuclide. 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

Signals produced by the gamma-ray detector are amplified, stored and displayed by the multichannel analyzer as well as the energy spectra, i. Applied Radiation and Isotopes, 51, 747-755.

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While the results of R_{aq} , I_{γ} , H_{in} , H_{ex} and D are given in.

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