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New technique for the determination of radon diffusion ...

Diffusion coefficient D
 $= 1,93 \cdot 10^{-12} \text{ m}^2/\text{s}$

Radon transfer diff =
 $0,11 \text{ Bq}/(\text{m}^2\text{h})$ at 100
 kBq/m^3 source strength

Evaluation and usage
instructions The

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diffusion coefficient is considerably smaller than concrete. The material can reduce the transfer of radon very good at a material thickness of 4 mm.

NEW TECHNIQUE FOR THE DETERMINATION OF RADON DIFFUSION ...

Radon diffusion

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coefficient was

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measured according to
the accredited method K

124/02/95 (method C of
ISO/TS 11665-13). The

tested sample is placed
between two containers.

Radon diffuses from the
lower container, which
is connected to the

radon source, through
the sample to the upper
container. When the

steady state

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The effects of some soil characteristics on radon ...

The model developed was fed with experimentally derived input parameters. The radon depth profile thus obtained was compared with the experimental values. The model was used to investigate how the radon concentration

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profile evolves with
time, for two different
diffusion coefficients.

**Finite element
modeling of radon
distribution in natural**

...

**NEW TECHNIQUE
FOR THE
DETERMINATION OF
RADON DIFFUSION
COEFFICIENT IN
RADON-PROOF**

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This paper describes a

new device and a

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method to determine the
radon ...

**A simple model to
simulate the diffusion
pattern of radon ...**

where D is radon
diffusion coefficient and
 λ is decay constant of
radon. In the present
study, radon diffusion
coefficients and
diffusion lengths have
been calculated using

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Eqs (2) and (3) for

building materials like:

limestone powder,

sandstone, granite,

crusher, soil, sand,

cement, fly ash, gypsum

and wall putty.

Estimation of radon diffusion coefficients in soil using ...

where C is the radon

concentration within the

membrane (Bq m^{-3}), D

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is the radon diffusion coefficient ($\text{m}^2 \text{s}^{-1}$), ? ($2.1 \cdot 10^{-6} \text{ s}^{-1}$) is the radon decay constant, x the membrane's thickness (m) and t the time (s). One attempt for the solution to this equation is by means of numerical methods such as Finite Element Methods (FEM) [10, 11]. With this methodology, it is

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possible to get the value
of ...

Testing permeability of building materials for radon diffusion

Interestingly, they did not rely on experimental data from radon exposure tests with subjects to derive a parameter associated with that process; this parameter was

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determined using four pieces of information—the diffusion coefficient of radon in tissue, the thickness of the surface skin layers, the skin surface area and the volume of subcutaneous fat.

RADON PERMEABILITY AND RADON

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EXHALATION OF BUILDING MATERIALS

Radon gas diffusion through concrete can be a significant mechanism for radon entry into dwellings.

Measurements of radon diffusion coefficients in the pores of residential concretes ranged from $2.1 \times 10^{-8} \text{ m}^2 \text{ s}^{-1}$ to $5.2 \times 10^{-7} \text{ m}^2 \text{ s}^{-1}$. The

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pore diffusion

coefficients generally increased with the water-cement ratio of the concrete and decreased with its density.

Measurements & Analysis of the Transport of Radon Through ...

The diffusion coefficient value found in the literature is an

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effective diffusion

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coefficient (interstitial
diffusion coefficient)-D

e. The bulk and the effective radon diffusion coefficients in the soil are correlated by the total soil porosity, p , according to the following expression (Rogers and Nielson, 1991 ; Hassan et al., 2009 , Kumar and Chauhan, 2013): (9) D

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 $e = D p$
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Radon diffusion
coefficient
corresponding to the
curve with the least-
squares fit to the
measured data is
identified as the right
coefficient (in this case

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$$D = 2,6 \cdot 10^{-11} \text{ m}^2 \text{ s}^{-1}$$

1). The final step includes the verification of the numerical solution by comparison with measured curve of radon concentration in the upper container (Figure 5).

Radon Diffusion Coefficient In Radon

In both cases, the

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calculation results in determining the radon diffusion length, from which the radon diffusion coefficient and the radon resistance are subsequently calculated. A detailed description of the measuring process and the mathematical procedure can be found in (O/11665-13 (E) Measu, 1166 ; Jiránek and Svoboda, 2009).

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The Radon Diffusion Length as a Criterion for the Radon ...

Radon diffusion through soil is strongly affected by the degree of water saturation of the soil pores. Methods have been developed by many researchers to measure radon diffusion coefficient. We developed an updated

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experimental system to estimate radon diffusion coefficients for typical types of soil in Japan and applied it to a typical loam with different water saturation levels (0–0.82).

Evaluation of the intake of radon through skin from ...

Once the equivalent

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diffusion coefficient is determined from the experimental profile of radon concentration at the soil surface layer (Antonopoulos-Domis, Xanthos, Clouvas, & Alifrangis, 2009), the radon current $J(z)$ can be determined and the radon entrance into dwellings can be estimated.

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Radon diffusion coefficients and radon resistances of...

where D is the radon diffusion coefficient [m^2s^{-1}], λ is the radon decay constant ($2.1 \times 10^{-6} s^{-1}$) and $C(x,t)$ is the radon concentration [Bqm^{-3}]. We assume simple boundary conditions: constant radon concentration in the lower container of

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the system $C(0,t) = C_0$
and zero concentration
 $C(d,t) = 0$

Monte Carlo method for determining radon diffusion ...

The radon diffusion coefficient of concrete quantifies the ability of the radon gas to flow through concrete when a concentration gradient is the driving force. This

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parameter is also closely related and proportional to the porosity and permeability.

Radon Diffusion Coefficients for Residential Concretes

...

Monte Carlo method for determining radon diffusion coefficients in porous media. Full Text. Mark. Sheng-yang Feng

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[0] Han-qing Wang
(???) [0] Yu Cui. Yong-
jun Ye. Xiang-yang Li.
Dong Xie. Zheng-zhong
He. Rong Yang.

Radiation

Measurements, pp.

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Keywords: diffusion
coefficient in air
theoretical ...

Determination of the

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radon diffusion coefficient and radon ...

Figure 1. Principle of the measuring method for determining the radon diffusion coefficient The radon concentrations in both chambers are determined alpha-spectroscopically using surface barrier detectors. The radon progeny

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Polonium-218 is positively charged and can be electrostatic deposited onto the +HV detector pre-amplifier amplifier

REPORT Radon Diffusion coefficient in FOAMGLAS cellular

...

Radon diffusion modelling. ... Initially, the model considered

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the diffusive flow of radon from its soil source and this simulation has highlighted the dependency of the flux of radon into the house on the magnitude of various parameters, such as the diffusion coefficient of radon in soil.

Radon diffusion

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Coefficient In modelling.

for plastic foil) up to 1.1
m for gypsum. The

diffusion length R was
calculated from the

diffusion coefficient D
with $RD = \sqrt{D \cdot t}$. If the

thickness of the material
is more than three times

the diffusion length,

then it is called radon-

tight. The mean

radon-222 exhalation

rates for the building

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Coefficient In
materials varied

between 0.4 mBq/m²s
and 0.05 mBq/m²s.

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