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*MATLAB - Radon
Transform and
Imaging toolbox*

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*Why are Radon
Tests Faulty?*

~~Reading the
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Mitigation~~

~~System The Truth
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and~~

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How to measure
the diffusion
coefficient
using a rotating
disk electrode¹⁰

Best Radon Gas
Test Kits 2018

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The Curious Case
of the Xenon

Balloon -
Periodic Table
of Videos **DIP**

Lecture 18:

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from parallel
projections and
the Radon**

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Mike Holmes on
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entering a*

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to Measure Radon
Gas HJM
Framework -
Interest Rate*

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*Term Structure
Models High
Radon NEXT STEP
Membranes
Radon Testing
Continuous Radon
Monitor IGA 2017
Radon and
Geology Solving
the Radon
Problem With
Wave Radon
Diffusion
Coefficient In
Radon*

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RADON DIFFUSION
COEFFICIENT IN
RADON-PROOF
MEMBRANES

DETERMINATION
AND

APPLICABILITY
FOR THE DESIGN
OF RADON

BARRIERS. The
selection of
effective radon-
proof insulation
from the total

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amount of
tanking
materials is
very difficult
due to the lack
of information
about radon
diffusion
through these
materials and
the absence of
general
guidelines for
the design of

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*[PDF] RADON
DIFFUSION
COEFFICIENT IN
RADON-PROOF
MEMBRANES ...*

$$(1) R R_n = d/D$$

$$(2) R R_n = \sinh \left(\frac{d}{\lambda} \right) \lambda$$

where $R R_n$ is
the radon
resistance

[s/m], λ is the

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Radon Diffusion

radon decay
constant [s^{-1}],
 d is the
thickness of the
material [m], l
is the radon
diffusion length
in the material
calculated as l
 $= (D/\lambda)^{1/2}$ [m],
and D is the
radon diffusion
coefficient of
the

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waterproofing material [m^2 /s].

Radon Proof Membranes

*Radon diffusion
coefficients and
radon
resistances of
...
insulation, the
diffusion
coefficients
vary between
10⁻¹³ m²s⁻¹ and*

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Radon Diffusion

$10^{-10} \text{ m}^2\text{s}^{-1}$. The lowest values of the radon diffusion coefficient D were obtained for polypropylene foils. In HDPE foils with dimples, the coefficient varies in the range 1×10^{-12}

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and 5×10^{-12}
 m^2s^{-1} . Radon
diffusion
coefficients for
HDPE and PVC
Insulation
thickness (mm)
Diffusion coef.

*RADON DIFFUSION
COEFFICIENT IN
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MEMBRANES . . .*

B.J. Thamer /

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Radon Diffusion

Diffusion In

coefficient of
radon 171

Elapsed Time (s)

Fig. 5.

Diffusion of
radon in sand.

Curve calculated
with the

observed radon
diffusion

coefficient of
 $3.2 \times 10^{-7} \text{m}^2/\text{s}$ and

50% of moisture

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Radon Diffusion

saturation ($L = 0.042 \text{ m}$, 297 K , 85000 Pa , $\text{EXRNI}=0$).

indication of the exhalation rate versus time.

The determination of the diffusion coefficient of radon in ...

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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

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from 2.1×10^{-8} $\text{m}^2 \text{s}^{-1}$ to $5.2 \times 10^{-7} \text{m}^2 \text{s}^{-1}$. The pore diffusion coefficients generally increased with the water-cement ratio of the concrete and decreased with its density.

Radon Diffusion

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Coefficients for Residential Radon Proof Concretes ...

The diffusion length R was calculated from the diffusion coefficient D with $RD = \lambda$. If the thickness of the material is more than three times the diffusion

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Coefficient, then it is called radon-tight. The mean radon-222

exhalation rates for the building materials varied between 0.4 mBq/m²s and 0.05 mBq/m²s.

*RADON
PERMEABILITY AND
RADON EXHALATION*

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OF BUILDING MATERIALS

For a typical single-family house, typical soil gas radon concentration and typical thickness of the membrane, the maximum value of the radon diffusion coefficient

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Should be around $1 \cdot 10^{-11} \text{m}^2/\text{s}$.
Materials with higher diffusion coefficients are excluded from usage as radon barriers.

*RADPAR WP6:
Assessment of
radon control
technologies*

The radon

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diffusion
coefficients and
radon .
diffusion
lengths (Figure
4) presents the
calculated .
radon gas diffu
sion lengths.
The corrected .
data include a
subtraction of
the radon gas .

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(PDF) Coefficient In
Supplementary
Cementitious
Materials and
Additives ...

A linear
diffusion model
serves as the
basis for
determination of
an effective
radon diffusion
coefficient in
concrete. The

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Coefficient D was needed to later allow quantitative prediction of radon accumulation within and behind concrete walls after application of an impervious radon barrier.

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*Effective
Diffusion
Coefficient of
Radon in
Concrete ...*

Principle of the
measuring method
for determining
the radon
diffusion
coefficient The
radon
concentrations
in both chambers

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Radon Diffusion

are determined a
lpha-spectroscop
ically using
surface barrier
detectors. The
radon progeny
Polonium-218 is
positively
charged and can
be electrostatic
deposited onto
the

The Radon

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Diffusion Length as a Criterion for the Radon Membranes

The radon diffusion coefficient used in the RADON model can either be calculated within the model (based on an empirical relationship

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with degree of saturation) or input directly in the model using values measured from laboratory testing.

APPENDIX D Radon Emanation Modeling

The studies related the

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Radon diffusion coefficient shows that open-air radon diffusion coefficient is the upper bound as $1.2 \times 10^{-5} \text{ m}^2 \text{ s}^{-1}$ and typically radon diffusion coefficient for soil with...

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(PDF) Radon In
diffusion
Radon Proof
Membranes
*studies in air,
gravel, sand,
soil ...*

radon diffusion
coefficients
ranged from 10^{-10}
 cm^2s^{-1} (0.7 mil
mylar) to 10^{-4}
 cm^2s^{-1} (2 mil
natural rubber).
Fleischer (1988)
reported on a

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Coefficient In

closed loop system composed of two small volume cups (a few hundred cm³) separated by the membrane specimen. The lower cup held a radon emanation source (6-8 g uranium ore); each chamber contained

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Coefficient In
*Test Methods For
Evaluating Radon
Barriers*

Finite-
Difference Time-
Domain
Simulations of
Radon Transport
in Porous Media
In this work, an
efficient
algorithm, using
a finite-

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Coefficient
Radon Proof
Membranes

difference time-domain (FDTD) technique, is proposed for modeling the variation of radon concentration as a function of soil structure parameters and vice versa.

Finite-

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Radon Diffusion

*Difference Time-Domain
Simulations of
Radon ...*

the multi-layer profile of radon in natural soils is more descriptive than the one-layer one used traditionally, where each layer has its own

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Radon Diffusion

diffusion coefficient. The effective diffusion coefficient, D , shows variation with the soil depth and its value differs from one geophysical location to another. A constant soil-

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Radon Diffusion

air interface
transfer coef-

Radon Proof

Membranes

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

Abstract. Radon migration in porous, earthen materials is characterized by diffusion in

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both the air and water components of the system as well as by the interaction of the radon between the air and water. The size distribution and configuration of the pore spaces and their moisture

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Coefficient in
are key
parameters in
determining the
radon diffusion
coefficient for
the bulk
material.

*Mathematical
model for radon
diffusion in
earthen ...*
Over time the

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Radon gas that is not being vented out will slowly build back up in your home. Ask to see data sheet on the plastic. Look for Radon Diffusion Coefficient test data on the data sheet. (If this is not listed

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Radon Diffusion

then the product has not been tested to block out radon) Also stand firm.

Blogging Plastic Sheeting | Radon Vapor Barrier

The radon diffusion coefficient of concrete quantifies the

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Radon Diffusion

ability of the radon gas to flow through concrete when a concentration gradient is the driving force. This parameter is also closely related and proportional to the porosity and permeability.

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Radon Diffusion

*Coefficient in
Analysis of the
Transport of
Radon Through
Membranes*

...

The radon
diffusion
coefficient was
measured under
nonstationary
conditions,
because homemade
radon sources
with a slow rate

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of radon emanation were used. The radon diffusion coefficients identified in the study were compared according to the thickness of the material and the number and the size of the pinholes.

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