

# Calibration of Electret-Based Integral Radon Monitors Using NIST Polyethylene-Encapsulated $^{226}\text{Ra}/^{222}\text{Rn}$ Emanation (PERE) Standards

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The recently developed  $^{222}\text{Rn}$  emanation standards that are based on polyethylene-encapsulated  $^{226}\text{Ra}$  solutions were employed for a first field-measurement application test to demonstrate their efficacy in calibrating passive integral radon monitors. The performance of the capsules was evaluated with respect to the calibration needs of electret ionization chambers (E-PERM<sup>®</sup>, Rad Elec Inc.). The encapsulated standards emanate well-characterized and known quantities of  $^{222}\text{Rn}$ , and were used in two different-sized, relatively-small, accumulation vessels (about 3.6 L and 10 L) which also contained the deployed electret monitors under test. Calculated integral  $^{222}\text{Rn}$  activities from the capsules over various accumulation times were compared to the averaged electret responses. Evaluations were made with four encapsulated standards ranging in  $^{226}\text{Ra}$  activity from approximately 15 Bq to 540 Bq (with  $^{222}\text{Rn}$  emanation fractions of 0.388); over accumulation times from 1 d to 33 d; and with four different types of E-PERM detectors that were independently cali-

brated. The ratio of the electret chamber response  $E_{\text{int}}$  to the integral  $^{222}\text{Rn}$  activity  $I_{\text{Rn}}$  was constant (within statistical variations) over the variables of the specific capsule used, the accumulation volume, accumulation time, and detector type. The results clearly demonstrated the practicality and suitability of the encapsulated standards for providing a simple and readily-available calibration for those measurement applications. However, the mean ratio  $E_{\text{int}}/I_{\text{Rn}}$  was approximately 0.91, suggesting a possible systematic bias in the extant E-PERM calibrations. This 9 % systematic difference was verified by an independent test of the E-PERM calibration based on measurements with the NIST radon-in-water standard generator.

**Key words:** calibration; electret; emanation; environment; E-PERM<sup>®</sup>; ionization chamber; measurement; radium-226; radon-222; standards.

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## 1. Introduction

The National Institute of Standards and Technology (NIST) has over the past 3 to 4 years worked on the development of a new emanation standard for  $^{222}\text{Rn}$  measurement calibrations as described by Collé et al. [1]. This new standard is based on a polyethylene-encapsulated  $^{226}\text{Ra}$  solution that has been demonstrated to emanate a well-characterized and known quantity of  $^{222}\text{Rn}$  when employed in an "accumulation mode." The encapsulated standard was intended to serve as a more

convenient, easier-to-use, alternative to the conventionally employed  $^{226}\text{Ra}$  solution standards that have been disseminated by NIST for  $^{222}\text{Rn}$  emanation measurements for the past 40 or more years [2–4]. The latter standards were, of course, only certified for the  $^{226}\text{Ra}$  mass content or at later times (circa mid-1980s) the  $^{226}\text{Ra}$  radioactivity content. The new encapsulated standards that are certified in terms of two parameters, both the  $^{226}\text{Ra}$  activity and the  $^{222}\text{Rn}$  emanation fraction, have,

# Radon Integral In Tuitionism

**Sigurdur Helgason**



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Schwartz distributions For a Radon measure on an arbitrary Hausdorff space essentially three equivalent definitions have been proposed As a set function it was defined by L Schwartz as an inner compact regular Borel measure which is locally bounded G Choquet considered it as a strongly additive right continuous content on the lattice of compact subsets Following P A Meyer N Bourbaki defined a Radon measure as a locally uniformly bounded family of compatible positive linear forms each defined on the vector lattice of continuous functions on some compact subset Introduction to Radon Transforms Boris Rubin,2015-11-12 A comprehensive introduction to basic operators of integral geometry and the relevant harmonic analysis for students and researchers **The Radon Transform** Ronny Ramlau,Otmar Scherzer,2019-06-17 In 1917 Johann Radon published his fundamental work where he introduced what is now called the Radon transform Including important contributions by several experts this book reports on ground breaking developments related to the Radon transform throughout these years and also discusses novel mathematical research topics and applications for the next century

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