

ISO 8529-2:2000-08 (E)

Reference neutron radiations - Part 2: Calibration fundamentals of radiation protection devices related to the basic quantities characterizing the radiation field

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions and symbols	2
4	Calibration and traceability of the reference radiation field	4
5	Calibration principles for calibrations with radionuclide neutron sources	5
6	Correction for scattering effects for radionuclide sources	8
7	Linearity determination	15
8	Calibrations using accelerators and reactors	15
9	Special considerations for personal dosimeters	18
10	Uncertainties	18
	Annex B (informative) Minimum room lengths for 40 % room return (reference [11])	24
	Annex C (normative) Air-attenuation correction factors	25
	Annex D (informative) Total air-scatter correction	26
	Annex E (informative) Criteria for construction and use of shadow cones	27
	Annex F (informative) Illustration of the parameters and variables for the reduced-fitting method	29
	Bibliography	30