

1. Record Nr.	UNINA9910135781503321
Titolo	ANSI Std N42.12-1980 : American National Standard Calibration and Usage of Sodium Iodide Detector Systems // Institute of Electrical and Electronics Engineers
Pubbl/distr/stampa	New York, New York : , : IEEE, , 1980
ISBN	0-7381-4163-1
Descrizione fisica	1 online resource (11 pages)
Disciplina	621.381522
Soggetti	Germanium diodes - Standards Gamma rays - Measurement - Standards
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Methods are established for performance testing, calibration, and use of sodium iodide detector systems for the measurement of gamma-ray emission rates of radionuclides, assay for radioactivity, and the determination of gamma-ray energies. Both energy calibration and efficiency calibration are covered. Three techniques are considered: total spectrum counting, which employs a system that counts all events above a low-energy threshold; single-channel analyzer counting, which employs a system with a counting window that establishes upper and lower energy boundaries; and multichannel analyzer counting, which employs a system utilizing multiple counting windows.