

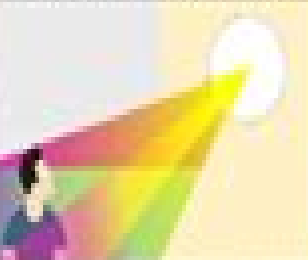
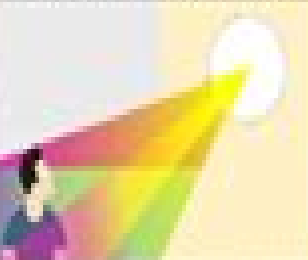

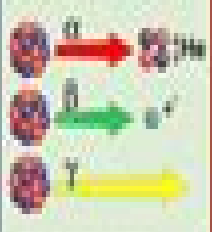



RADIATION UNITS OF MEASUREMENT

Radiation Classification
Measurement Category
Measurement Method
Measurement Type

ACTIVITY		EXPOSURE		DOSE	
DIRECT READING		CALCULATED VALUES			
DETECTOR	ACTIVITY	EXPOSURE	EXPOSURE RATE	ABSORBED DOSE	EQUIVALENT DOSE
					
Radiation interactions detected by a radiation detector and its associated counter	Amount of ionizing radiation released by unstable radioactive source through its decay process	The amount of energy contained in a cubic centimeter of air at standard temperature and pressure	The rate at which the ionizing energy is being delivered to a specific location	The accumulated dose absorbed to any material	The absorbed dose adjusted for the type of radiation
Each event = 1 count		$2.58 \times 10^{-4} \text{ C/kg}$		Exposure rate multiplied by exposure duration	alpha, gamma, electrons = 1 neutrons = 10
Counts/second (cps)	Disintegrations/second (dps)	Röntgen R	Röntgens/Year (R/Y)	Radiation Absorbed Dose (RAD)	Radiation Equivalent Dose (REM)
Counts/minute (cpm)	Disintegrations/minute (dpm)				
Counts/second (cps)	Curie (Ci) = 3.7×10^{10} dps	C/kg	Coulombs/Kilo (C/Kg)	Gray (Gy)	Sievert (Sv)
Counts/minute (cpm)	Becquerel (Bq) = 1 dps				
	Rutherford (Rd) = 1.0×10^6 dps				

irradiative dose



The equivalent dose adjusted for the specific tissue type

Tissue	Weighting Factor	Sum of Tissue Weighting Factors
bone marrow (red), colon, lung, stomach (brown), weighting factors	0.12	0.12
breast	0.08	0.08
bladder, esophagus, liver, thyroid	0.04	0.04
bone surface, brain, nervous glands, skin	0.01	0.04
Total		1

Source: NRC, DOE and EPA (2002)

EFFECTIVE DOSE



The equivalent dose adjusted for the specific tissue type

Tissue	Weighting Factor	Sum of Tissue Weighting Factors
Brain, marrow (rad), colon, lung, stomach, breast, remaining tissues	0.12	0.12
ovaries	0.08	0.08
testes, esophagus, liver, thyroid	0.04	0.16
bone surface, skin, salivary glands, eye	0.01	0.04
Total		1

Measurement Units: REM and Sieverts (Sv)

Measurement Conversions:
 1 Röntgen for 1 hour = 1 RAD of Absorbed Dose
 1 R = 1 RAD = 1 REM for Gamma and X-Ray Energies
 1 Sievert = 100 Röntgens
 1 Sievert = 100 REMs
 1 Gray = 100 Rads

Notes: Radiation counters like Geiger counters will assume conditions and apply calculations to the detected events to report activity, exposure rate, and absorbed dose.

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Table of Contents Radiation Protection Measurement

1. Understanding the eBook Radiation Protection Measurement
 - The Rise of Digital Reading Radiation Protection Measurement
 - Advantages of eBooks Over Traditional Books
2. Identifying Radiation Protection Measurement
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Radiation Protection Measurement
 - User-Friendly Interface
4. Exploring eBook Recommendations from Radiation Protection Measurement
 - Personalized Recommendations
 - Radiation Protection Measurement User Reviews and Ratings
 - Radiation Protection Measurement and Bestseller Lists
5. Accessing Radiation Protection Measurement Free and Paid eBooks
 - Radiation Protection Measurement Public Domain eBooks
 - Radiation Protection Measurement eBook Subscription Services
 - Radiation Protection Measurement Budget-Friendly Options

6. Navigating Radiation Protection Measurement eBook Formats
 - ePub, PDF, MOBI, and More
 - Radiation Protection Measurement Compatibility with Devices
 - Radiation Protection Measurement Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Radiation Protection Measurement
 - Highlighting and Note-Taking Radiation Protection Measurement
 - Interactive Elements Radiation Protection Measurement
8. Staying Engaged with Radiation Protection Measurement
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Radiation Protection Measurement
9. Balancing eBooks and Physical Books Radiation Protection Measurement
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Radiation Protection Measurement
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Radiation Protection Measurement
 - Setting Reading Goals Radiation Protection Measurement
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Radiation Protection Measurement
 - Fact-Checking eBook Content of Radiation Protection Measurement
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

-
- Interactive and Gamified eBooks

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