

# Summary – Radiation Quantities & Units

Quantity	Equation	Medium	Type of Radiation	SI unit	Classical unit	Relation
Activity	$A = dN/dt$	Any medium	Any radiation	Bq (dps)	Ci	$1 \text{ Ci} = 3.7 \times 10^{10} \text{ Bq}$
Absorbed dose	$D = dE/dm$	Any medium	Any radiation	Gy (J/kg)	Rad $1 \text{ Rad} = 100 \text{ ergs/g}$	$1 \text{ Gy} = 100 \text{ Rad}$
Equivalent dose	$H = D \times W_R$	Living tissue	Radiation dependent	Sv	rem	$1 \text{ Sv} = 100 \text{ rem}$
Effective Dose	$E = H \times W_T$	Whole body		Sv	rem	$1 \text{ Sv} = 100 \text{ rem}$
Collective effective dose	$S = E_i N_i$			man-Sv	man-rem	
Exposure	$X = dQ/dm$	Air	X, $\gamma$	C/kg	Roentgen, R	$1 \text{ R} = 2.58 \times 10^{-4} \text{ C/kg}$

# Radiation Quantities And Units

**Jiyang Yu**



## **Radiation Quantities And Units:**

*Radiation Quantities and Units* International Commission on Radiological Units and Measurements, 1962     Radiation Quantities and Units International Commission on Radiation Units and Measurements, 1980     **Radiation Quantities and Units**, 1980     *Radiation quantities and units* International Commission of Radiation Units and Measurements, 1968

**Report - International Commission on Radiation Units and Measurements**, 1963     **Radiation Quantities and Units** International Commission on Radiation Units and Measurements, 1962     **Radiation Quantities and Units. Reprinted**, 1975     **SI Units in Radiation Protection and Measurements** National Council on Radiation Protection and Measurements, 1985     *Quantities and Units in Radiation Protection Dosimetry* International Commission on Radiation Units and Measurements, 1993     **Radiation Quantities and Units** International Commission on Radiological Units and Measurements, 1962     *From "quantity of Radiation" and "dose" to "exposure" and "absorbed Dose"* Harold Orville Wyckoff, 1980     **Radiation Quantities and Units** International Commission on Radiological Units and Measurements, 1962     **Radiation Quantities and Units**, 1968     **Radiation Quantities and Units - International Commission on Radiological Units and Measurements (Icru) Report 10A, 1962** United States. National Bureau of Standards, 1965     National Bureau of Standards Handbook, 1962     *Radiation Quantities and Units - International Commission on Radiological Units and Measurements (Icru) Report 10A, 1962* United States. National Bureau of Standards, 1965     Fundamental Principles of Nuclear Engineering Jiyang Yu, 2022-01-12 This book highlights a comprehensive and detailed introduction to the fundamental principles related to nuclear engineering As one of the most popular choices of future energy nuclear energy is of increasing demand globally Due to the complexity of nuclear engineering its research and development as well as safe operation of its facility requires a wide scope of knowledge ranging from basic disciplines such as mathematics physics chemistry and thermodynamics to applied subjects such as reactor theory and radiation protection The book covers all necessary knowledge in an illustrative and readable style with a sufficient amount of examples and exercises It is an easy to read textbook for graduate students in nuclear engineering and a valuable handbook for nuclear facility operators maintenance personnel and technical staff     Dictionary and Handbook of Nuclear Medicine and Clinical Imaging Mario P. Iturralde, 2018-01-18 This impressive dictionary handbook presents the nomenclature characteristic of nuclear medicine explaining the meaning and current usage of a large variety of terms It is designed as a ready to use and simple guide arranged in alphabetical order with additional basic information assembled in the appendices The single volume offers a look into the multidisciplinary world of this specialty The field of nuclear medicine has emerged as an integrated medical discipline It is an example of the convergence of many scientific disciplines with those of medicine emphasizing the use of radionuclides in research diagnosis and therapy The dictionary handbook will be of importance to individuals in nuclear medicine and the following fields physics instrumentation techniques computers radiopharmacology

and radiopharmacy radioimmunoassay radiobiology and radiation protection quality control math and statistics nuclear science and technology radiology ultrasound and nuclear magnetic resonance      **Radiation quantities and units : recommendations of the International Commission on Radiological Units and Measurements ,1962      National Bureau of Standards Handbook** United States. National Bureau of Standards,1963

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