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EL582 Radiation Physics Yao Wang,
Polytechnic U., Brooklyn 16

Characteristic X-Ray • The incident
electron collides with a K-shell electron,

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exciting or ionizing the atom, leaving a hole in that shell. – As the atom returns to its ground state, the k-shell hole is filled by a higher shell electron – The loss of energy creates an EM photon, known as

Physics of Radiography

- Understand the basic physics of the

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electromagnetic and particulate forms of ionizing radiation.

- Understand the distinctions between the units of radiation quantity, exposure and dose.
- Be familiar with some of the methods used to measure radiation dose.

Participants Should Be Able To:

Introduction to Radiation Physics,

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Quantities and Units

Physics 101: Lecture 26, Pg 10 Heat Transfer: Radiation All things radiate electromagnetic energy $H_{\text{emit}} = Q/t = eA T^4$ » e = emissivity (between 0 and 1) perfect “black body” has $e=1$ » T is temperature of object in Kelvin » = Stefan-Boltzmann constant = $5.67 \times 10^{-8} \text{ J/s-m}^2\text{-K}^4$ No “medium” required

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Physics 101: Lecture 26 Conduction, Convection, Radiation

The knowledge of the basic radiation physics, including the structure of matter, elements of nuclear physics, the nature of electromagnetic radiation, and radiation interaction with matter is required to understand irradiation pro-

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cessing and its potential in material sciences. 1.1. CLASSIFICATION OF RADIATION Radiation-induced changes in materials depend on the origin and type of

BASIC RADIATION PHYSICS AND SOURCES OF RADIATION

- natural background radiation comes

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from 1) cosmic rays, 2) solar radiation, 3) terrestrial sources, and 4) radon 1) Cosmic rays - the Earth, and all living things on it, are constantly bombarded by radiation from outside our solar system; this cosmic radiation consists of positively-charged

PhysicsII Lecture Notes

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(Radioactivity) - Dickey Physics

Detection of Radiation A scintillation counter uses a scintillator -a material that emits light when a charged particle goes through it. The scintillator is made light-tight, and the light flashes are viewed with a photomultiplier tube, which has a photocathode that emits an electron when struck by a photon and

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then a series of amplifiers.

Phys102 Lecture 34/35 Nuclear Physics and Radioactivity

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folder: S:\SHARED\Dept. Rad
Oncology\Radiation Oncology\Residents
Physics Course\Recorded Lectures

The Physics of Radiation Oncology

- Gamma rays are electromagnetic radiation with high frequency.
- When atoms decay by emitting α or β particles to form a new atom, the nuclei of the

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new atom formed may still have too much energy to be completely stable. • This excess energy is emitted as gamma rays (gamma ray photons have energies of $\sim 1 \times 10^{-12}$ J). •

Chapter 12 -Radioactivity

Radiation Interactions (cont.) 4:

Radiation Chemistry/LET/Tracks : 5:

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Effects on Chromosomes/DNA : 6: Dose
Response in Vitro: Cell Survival Curves :
7: RBE/Clustered Damage : 8: Protons
and Alphas of same LET : 9: Dose
Response in Vivo : 10: Chemical
Modification of Radiation Response : 11

**Lecture Notes | Principles of
Radiation Interactions ...**

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Gamma ray spectroscopy is a basic tool of nuclear physics, for its ease of observation (since it's not absorbed in air), accurate energy determination and information on the spin and parity of the excited states. $E_\gamma = \hbar\omega = E_i - E_f$. Also, it is the most important radiation used in nuclear medicine. γ

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7. Radioactive decay - MIT OpenCourseWare

PHYSICS 7011. Course Description. The aim of this on-line course is to provide an understanding of the effects of radiation in vivo, operational health physics, radiation protection and epidemiological methods appropriate for

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practice as a medical or health physicist. The reading-tutorial course consists of 25 topics covering various aspects of Radiation Biology, Protection and Epidemiology.

PHYSICS 7550 - Radiation Biology, Protection ...

17th Annual Dr. Karl Prado Radiobiology

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and Physics Review Course 2020

Radiobiology & Physics Review Course

NEW DATE: Friday, October 23, 2020.

The University of Maryland and the Department of Radiation Oncology have been actively monitoring the COVID-19 outbreak, staying up to date on the latest guidance from the CDC, and proactively implementing measures to

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keep our University of Maryland ...

17th Annual Dr. Karl Prado Radiobiology and Physics Review ...

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NEEP/ECE/Physics 725 lecture notes for
Plasma Kinetic Theory and Radiation
Processes (6.6 MB .pdf, 376 page file)
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Plasma Kinetic Theory,

Callen: Plasma Physics

Refer to the NEET Physics Dual Nature of
Matter and Radiation Video Lectures ,

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where the following topics have been discussed : electron emission, photoelectric effect, experimental study of photoelectric effect, photoelectric effect and wave theory of light, Einstein's Photoelectric Equation: Energy Quantum of Radiation, particle nature of ...

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The solar energy after considerable interactions with atmosphere reaches earth. this radiation energy emitted or reflected by atmosphere constituents forms the atmospheric radiation. Physics (18 Slides)

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Radiation Biology Lecture Notes and Lab Experiments. The current version of our class notes/textbook is listed below chapter by chapter. We will be updating the notes somewhat throughout the quarter. Lecture Notes: Table of Contents . Chapter 1 : Intro to basic

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ideas, Nuclear terminology Chapter 2 :
Statistics of Nuclear Decay

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