

## I. BASIC CONCEPTS

# CT PHYSICS

*Mahadevappa Mahesh, MS, PhD*

### 1. What is CT?

CT is a method for acquiring and reconstructing an image of a thin cross section of an object. It is based on measurements of x-ray attenuation through the section using many different projections. This is achieved by rotating both x-ray tube and detectors around the patient.

### 2. How is CT different from conventional radiographs?

CT differs from conventional radiography in two significant ways:

- CT forms a cross-sectional image, eliminating the superimposition of structures that occurs in plain film imaging because of compression of three-dimensional (3D) body structures onto the two-dimensional recording system.
- The sensitivity of CT to subtle differences in x-ray attenuation is at least a factor of 10 higher than normally achieved by film-screen recording systems because of the virtual elimination of scatter.

### 3. What are the basic principles of CT?

Fundamentally a CT scanner makes many measurements of attenuation through the plane of a finite thickness cross section of the body. The system uses these data to reconstruct a digital image of the cross section in which each pixel in the image represents a measurement of the mean attenuation of a box-like element (voxel) extending through the thickness of the section. An attenuation measurement quantifies the fraction of radiation removed in passing through a given amount of a specific material of thickness  $\Delta x$ , as shown in Fig. 1-1. Attenuation is expressed as:

$$I_1 = I_0 e^{-\mu x}$$

where,  $I_1$  and  $I_0$  are the x-ray intensities measured with and without the material in the x-ray beam path, respectively, and  $\mu$  is the linear attenuation coefficient of the specific material (see Fig. 1-1). The image reconstruction process, such as the filtered back-projection method and many other methods, are applied to derive the average attenuation coefficient ( $\mu$ ) values for each voxel in the cross section, using many rays from many different rotational angles around the cross section.

### 4. How is CT signal produced?

A CT signal results from tissue discrimination based on the variations in attenuation between "voxels," which depends on differences in voxel density and atomic number of elements present and is influenced by the detected mean photon energy.

### 5. What is a CT image?

A CT image as shown later is composed of pixels (picture elements). Each pixel on the image represents the average x-ray attenuation in a small volume (voxel) that extends through the tissue section. In Fig. 1-2, the pixel size is exaggerated. In addition, in a real CT image, all tissues within a single pixel would be the same shade of gray.

# Ct Physics Meded Connect

**Thorsten M. Buzug**

## Ct Physics Meded Connect:

*Principles and Practice of Radiation Therapy* Charles M. Washington, Dennis T. Leaver, 2015-04-01 The only radiation therapy text written by radiation therapists Principles and Practice of Radiation Therapy 4th Edition helps you understand cancer management and improve clinical techniques for delivering doses of radiation A problem based approach makes it easy to apply principles to treatment planning and delivery New to this edition are updates on current equipment procedures and treatment planning Written by radiation therapy experts Charles Washington and Dennis Leaver this comprehensive text will be useful throughout your radiation therapy courses and beyond Comprehensive coverage of radiation therapy includes a clear introduction and overview plus complete information on physics simulation and treatment planning Spotlights and shaded boxes identify the most important concepts End of chapter questions provide a useful review Chapter objectives key terms outlines and summaries make it easier to prioritize understand and retain key information Key terms are bolded and defined at first mention in the text and included in the glossary for easy reference UPDATED chemotherapy section expansion of What Causes Cancer and inclusions of additional cancer biology terms and principles provide the essential information needed for clinical success UPDATED coverage of post image manipulation techniques includes new material on Cone beam utilization MR imaging image guided therapy and kV imaging NEW section on radiation safety and misadministration of treatment beams addresses the most up to date practice requirements Content updates also include new ASRT Practice Standards and AHA Patient Care Partnership Standards keeping you current with practice requirements UPDATED full color insert is expanded to 32 pages and displays images from newer modalities

**A Text-book of Physics**  
William Watson, 1920

*Textile World* Walter S. Kelley, Henry G. Lord, Walter Bradford Guild, Henry Gratton  
Kittredge, Samuel Sherman Dale, Charles Hiram Clark, Vernon E. Carroll, Clarence Hutton, 1881-, Douglas Gordon Woolf, 1923

[Bibliography of Agriculture](#) ,1974    [Dairy Science Abstracts](#) ,1946    [Science Abstracts](#) ,1959    [Arts & Humanities Citation Index](#) ,1981 A multidisciplinary index covering the journal literature of the arts and humanities It fully covers 1 144 of the world's leading arts and humanities journals and it indexes individually selected relevant items from over 6 800 major science and social science journals

*CT Layman's Terms* Lawrence McNair, 2009-10-01 What's so tough about the concepts of CT Physics This book will help those who want to learn about CT Physics and who are inspiring to become CT Technologists

[The Physics of CT Dosimetry](#) Robert L. Dixon, 2019-03-26 This book explores the physics of CT dosimetry and provides practical guidance on best practice for medical researchers and practitioners A rigorous description of the basic physics of CT dosimetry is presented and illustrates flaws of the current methodology It also contains helpful and rigorous shortcuts to reduce the measurement workload for medical physicists The mathematical rigor is accompanied by easily understood physical explanations and numerous illustrative figures Features Authored by a recognised expert in the field and award winning teacher Includes derivations for tube current modulation and variable pitch as well as stationary table

techniques Explores abnormalities present in dose tracking software based on CTDI and presents methods to correct them

**MDCT Physics** Mahadevappa Mahesh,2009 Written by the chief physicist at Johns Hopkins University Hospital this easy to read short textbook explains the physics behind multi detector CT technology particularly newer more complex technology The focus is on principles of physics effects of scan parameters on image quality and optimum radiation dosage The book includes numerous key points summaries and questions to assist in exam preparation

**CT Imaging** Alexander C. Mamourian,Harold I. Litt,2013-03-14 After reading this book imagers and CT technologists should better understand the

capabilities of modern multidector CT scanners Imagers and technologists must understand how their scanners operate in order to take advantage of new capabilities for optimizing protocols that minimize patient dose In addition the reader will be better prepared to recognize the pitfalls and artifacts that appear on CT imaging Some of these are unfamiliar to most imagers and are the product of the large detector arrays offered on new CT scanners

**CT Physics & Imaging: a Guide for Technologists** Thaddeus Morris,Robert Kitchell,Isaac Rutel,Travis McNutt,Lex Lidiski,Kathryn Pittman,2021-07-30 An easy reading guide to understanding principles of CT image production procedures radiation safety and contrast agents

Everything you need and nothing more *The CT Handbook: Optimizing Protocols for Today's Feature-Rich Scanners* Timothy P. Szczykutowicz,2020-05-01 This text covers everything from the basic x ray photon interactions of CT to

scheduling patients and properly organizing and displaying protocols After reading this book radiologists should have enough confidence to suggest changes to their CT protocol optimization teams Likewise non radiology practitioners who use CT as part of their practice e g radiation therapy physicists oncologists cardiologists dentists surgeons researchers etc will find this text helpful in getting better image quality from their equipment This text doesn t shy away from comparing features from different vendors Providing vendor specific information allows one to gain real world insight into MDCT scanner reconstruction and AEC operation

**Computed Tomography** Euclid Seeram,2022-07-11 COMPUTED TOMOGRAPHY

PHYSICS AND TECHNOLOGY In the newly updated second edition of Computed Tomography Physics and Technology A Self Assessment Guide distinguished computed tomography CT educator Euclid Seeram delivers a completely revised and expanded collection of multiple choice questions covering all relevant technological advances including the use of artificial intelligence in the field of CT In the book readers will find a focused emphasis on physics and technology an area where students of this discipline have traditionally struggled The questions are presented in a format similar to those found on the certification examinations of the American Registry of Radiologic Technologists ARRT the Canadian Association of Medical Radiation Technologists CAMRT and other professional medical imaging organizations around the world The author has also included true false questions short answer questions and relevant learning outcomes to aid students in their study of the subject Readers will also find brief notes on An introduction to computed tomography including an overview of the field and a historical perspective Digital image processing and the physics of computed tomography Data acquisition principles and

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**The Physics and Applications of PET/CT Imaging** Dianna Cody,Osama Mawlawi,2008

**CT at a Glance** Euclid Seeram,2018-04-09 CT at a Glance gets readers quickly up to speed with the core knowledge and competencies required for computed tomography

CT scanning as established by the major radiography organizations around the world including the ASRT and the CAMRT

This brand new title describes the basic science behind CT with an emphasis on the theory that is essential for practice

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Quality control fundamentals CT at a Glance is an indispensable learning resource for students in medical imaging

technology courses including those covering radiography nuclear medicine and radiation therapy as well as for biomedical engineering technology students

**Computed Tomography** Thorsten M. Buzug,2008-05-20 This volume provides an overview of X ray technology and the historical development of modern CT systems The main focus of the book is a detailed derivation of reconstruction algorithms in 2D and modern 3D cone beam systems A thorough analysis of CT artifacts and a discussion of practical issues such as dose considerations give further insight into current CT systems Although written mainly for graduate students practitioners will also benefit from this book

**Computed Tomography** Euclid Seeram,2001

This book is dedicated to the subject of computed tomography physics The new edition of this comprehensive text includes the very latest in computed tomography principles applications and technology This resource discusses multi slice computed tomography in detail with coverage of fundamental physical principles image reconstruction and applications such as 3 D imaging fluoroscopy angiography virtual reality imaging and volume scanning This book also contains 22 quality control tests for CT scanners It includes many completely updated chapters revised illustrations and new contributors This is an essential reference textbook for anyone in the field of radiologic technology A Volume in the Saunders Contemporary Imaging

Techniques Series

**Dual Energy CT in Clinical Practice** Thorsten Johnson,Christian Fink,Stefan O.

Schönberg,Maximilian F Reiser,2011-01-18 Dual energy CT is a novel rapidly emerging imaging technique which offers

important new functional and specific information In this book physicists and specialists from different CT manufacturers

provide an insight into the technological basis of and the different approaches to dual energy CT Renowned medical scientists in the field explain the pathophysiological and molecular background of the technique discuss its applications provide detailed advice on how to obtain optimal results and offer hints regarding clinical interpretation The main focus is on the use of dual energy CT in daily clinical practice and individual sections are devoted to imaging of the vascular system the thorax the abdomen and the extremities Evaluations and recommendations are based on personal experience and peer reviewed literature Plenty of carefully chosen high quality images are included to illustrate the clinical benefits of the technique    Computed Tomography Luca Saba,2012-01-05 Computed Tomography CT and in particular multi detector row computed tomography MDCT is a powerful non invasive imaging tool with a number of advantages over the others non invasive imaging techniques CT has evolved into an indispensable imaging method in clinical routine It was the first method to non invasively acquire images of the inside of the human body that were not biased by superimposition of distinct anatomical structures The first generation of CT scanners developed in the 1970s and numerous innovations have improved the utility and application field of the CT such as the introduction of helical systems that allowed the development of the volumetric CT concept In this book we want to explore the applications of CT from medical imaging to other fields like physics archeology and computer aided diagnosis Recently interesting technical anthropomorphic forensic and archeological as well as paleontological applications of computed tomography have been developed These applications further strengthen the method as a generic diagnostic tool for non destructive material testing and three dimensional visualization beyond its medical use

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web illustrations by cindy karp synopsis under the direction of veteran teacher jacquelyn jackie stone a fifth grade class at avocado elementary school in homestead florida studies the nearby everglades the book follows the students as they learn about this endangered and very unusual wetland