

# Computed Tomography Fundamentals System Technology Image

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## **Computed Tomography Fundamentals System Technology**

The book offers a comprehensive and user-oriented description of the theoretical and technical system fundamentals of computed tomography (CT) for a wide readership, from conventional single-slice acquisitions to volume acquisition with multi-slice and cone-beam spiral CT.

## **Computed Tomography: Fundamentals, System Technology ...**

Written by one of the world's leading experts, it offers a comprehensive description of the theoretical and technical system fundamentals of computed tomography (CT) for a wide readership, from conventional single-slice acquisitions to volume acquisition with multi-slice and cone-beam spiral CT.

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## **Computed Tomography: Fundamentals, System Technology ...**

I.A. Description This book describes the evolution of computed tomography (CT) over four decades, projects into the future concerning new developments, explains the scientific and technological foundations of the imaging methodology, and provides examples of static and dynamic imaging with computed tomography.

## **Computed Tomography: Fundamentals, System Technology ...**

Assessment: Computed Tomography covers a broad range of fundamental, technology, and application topics from the perspective of both biomedical engineering and physics. This compact book is enhanced by the CD, which brings to life the power of CT. Although the typeset is small, the images and instructive illustrations make the book very readable.

## **Computed Tomography: Fundamentals, System Technology ...**

The book offers a comprehensive and user-oriented description of the theoretical and technical system fundamentals of computed tomography (CT) for a wide readership, from conventional single-slice acquisitions to volume acquisition with multi-slice and cone-beam spiral CT. It covers in detail all characteristic parameters relevant for image quality and all performance features significant for clinical application.

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1st generation CT. xray tube and single detector are connected

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and move together by translation and then rotation xray beam has linear (pencil-like) shape. 2nd generation CT. same type of movement multiple detectors arranged in a row fan shaped xray beam instead of linear shaped. CT III. generace.

## **Basic principles of computed tomography**

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## **Computed Tomography: Fundamentals, System Technology ...**

Computed Tomography (CT) was introduced in clinical practice in 1972 (Hounsfield & Cormack, EMI Laboratories, England) [1] for tomographic studies of the chest and abdomen [2] [3] [4] and brain...

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