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The Mathematics Of Computerized Tomography

The Mathematics of Computerized Tomography covers the relevant mathematical theory of the Radon transform and related transforms and also studies more practical questions such as stability, sampling, resolution, and accuracy. Quite a bit of attention is given to the derivation, analysis, and practical examination of reconstruction algorithms, for both standard problems and problems with incomplete data.

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Single-photon emission computed tomography (SPECT) is a nuclear-medicine imaging technique that has been shown to provide clinically useful images of radionuclide distributions within the body. The problem of quantitative determination of tomographic activity images from a projection data set leads to a mathematical inverse problem which is formulated as an integral equation.

The mathematics of computerized tomography (Book) | OSTI.GOV

The Mathematics of Computerized Tomography. Stuttgart, B. G. Teubner and Chichester etc., John Wiley & Sons 1986. X, 222 S., DM 72,-. ISBN 3-519-02103-X and 0-471-90959-9 - Micke - 1987 - ZAMM - Journal of Applied Mathematics and Mechanics / Zeitschrift für Angewandte Mathematik und Mechanik - Wiley Online Library

Natterer, F., The Mathematics of Computerized Tomography ...

The Mathematics of Computerized Tomography (Classics in Applied Mathematics, Vol. 32) Frank Natterer Philadelphia, PA: SIAM 2001 xviii+222 pp \$61.00 (softcover) (First published by Teubner, Stuttgart and Wiley, Chichester in 1986) ISBN: 0-89871-493-1 Sixty-two years passed between the publication of Radon's inversion formula in the

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Proceedings of the London Mathematical Society; Transactions of the London Mathematical Society; Journal of Topology; Mathematika; LMS Membership; lms.ac.uk; Bulletin of the London Mathematical Society. Volume 19, Issue 4. Book reviews. THE MATHEMATICS OF COMPUTERIZED TOMOGRAPHY. L. A. Shepp. Search for more papers by this author. L. A. Shepp ...

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Historically, computed tomography began with parallel beam x rays in which the photons travel along lines with a fixed direction θ rather than along rays emanating from a fixed source a . The parallel beam radiograph is defined by $P_{\theta}(x) = \int_{-\infty}^{\infty} f(x + t\theta) dt$, $x \in \mathbb{R}^n$. (1.2) Parallel x-ray beams are difficult to produce physical-

Mathematical foundations of computed tomography

Tomography is a widely used method to reconstruct cross-sections of the interior structure of an object without having to cut or damage the object. In this context one usually speaks of computerized (computed, computer assisted) tomography, since for actually performing the reconstructions in practice one needs to use a digital computer.

Tomography - Encyclopedia of Mathematics

The basic mathematics behind tomography was worked out by the mathematician Johann Radon in 1917. Much later, in the 1960s Allan McLeod Cormack, working in collaboration with Godfrey Newbold Hounsfield, developed the first practical scanning device, the celebrated EMI scanner. For

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this work, Cormack won the Noble Prize.

Saving lives: the mathematics of tomography | plus.maths.org

The history of X-ray computed tomography goes back to at least 1917 with the mathematical theory of the Radon transform In October 1963, William H. Oldendorf received a U.S. patent for a "radiant energy apparatus for investigating selected areas of interior objects obscured by dense material".

History of computed tomography - Wikipedia

The life of a bunch of X-ray photons can also be described by a simplified mathematical model. This video is part of the "Computed Tomography and the ASTRA Toolbox" training course, developed at ...

Basic mathematics of Computed Tomography

An Introduction to the Mathematics of Tomography – p. The Goal of CT: Recover an approximation to $f(x)$ from X-ray CT data over a finite number of lines. With uniformly distributed data (lines throughout the object with fairly evenly spaced angles), good, stable reconstruction methods exist, such as Filtered Backprojection [Na, NaW] (Faridani).

An Introduction to the Mathematics of Tomography

Proceedings of the London Mathematical Society; Transactions of the London Mathematical Society; Journal of Topology; Mathematika; LMS Membership; lms.ac.uk; Book reviews. THE MATHEMATICS OF COMPUTERIZED TOMOGRAPHY. L. A. Shepp. Search for more papers by this author. L. A. Shepp. Search for more papers by this author. First published: July 1987 ...

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A device used in tomography is called a tomograph, while the image produced is a tomogram . In many cases, the production of these images is based on the mathematical procedure tomographic reconstruction, such as X-ray computed tomography technically being produced from multiple projectional radiographs.

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