

## The Mathematics Of Computerized Tomography By Frank Natterer

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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.

### The Mathematics of Computerized Tomography | Society for ...

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### The Mathematics of Computerized Tomography (Classics in ...

The Mathematics of Computerized Tomography. Authors: Natterer, F. Free Preview. Buy this book eBook \$49.99 price for USA in USD Buy eBook ISBN 978-3-663-01409-6; Digitally watermarked, DRM-free; Included format: PDF; ebooks can be used on all reading devices; Immediate eBook download after purchase ...

### The Mathematics of Computerized Tomography | F. Natterer ...

Natterer, F. The mathematics of computerized tomography. United States. Natterer, F. Wed . "The mathematics of computerized tomography". United States. abstractNote = {Details the reconstruction of a function from line or plane integrals, with special emphasis on applications in science, radiology and engineering.

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

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.

### The mathematics of computerized tomography | Guide books

Frank Natterer, "The Mathematics of Computerized Tomography" English | 2001 | pages: 245 | ISBN: 0898714931 | PDF | 8,1 mb

### The Mathematics of Computerized Tomography / AvaxHome

Proceedings of the London Mathematical Society; Transactions of the London Mathematical Society; Journal of Topology; Mathematika; LMS Membership; Ims.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 ...

### THE MATHEMATICS OF COMPUTERIZED TOMOGRAPHY - Shepp - 1987 ...

The principles of computed tomography are relatively simple to grasp, but implementing the computation and reconstruction of the collected data is a much more math-y and challenging task. The ...

### Mathematical Medicine: Computed Tomography (CT Scans) | by ...

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 this work, Cormack won the Noble Prize.

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

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 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

### The Mathematics of Computerized Tomography (Classics in ...

X-ray Computed Tomography (CT)  $f(x)$  = density of the cross-section at  $x \in \mathbb{R}^2$  (slide 1).  $L$  = the line of X-rays,  $I(x)$  = the intensity of X-rays at  $x \in L$ . Physics:  $I(x)$  is decreased proportional to  $f(x)$ :  $dI/dx = -f(x)I(x)$   $dI/I = -f(x)dx$ . Measured data:  $\ln I_{out} = e^{-Rf(L)}$  An Introduction to the Mathematics of Tomography - p.

### An Introduction to the Mathematics of 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.

### The Mathematics of Computerized Tomography | Frank ...

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

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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 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

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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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