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Saving Lives: the mathematics of tomography | plus.maths.org
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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1. Computerized Tomography | The Mathematics of ...
Outline: X-ray tomography and the Radon transform Limited Data Tomography and Lambda CT Singularity detection in tomography An Introduction to the Mathematics of Tomography – p.

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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.

bol.com | The Mathematics of Computerized Tomography ...
I.1 The Basic Example: Transmission Computerized Tomography The most prominent example of CT is still transmission CT in diagnostic radiology. Here, a cross-section of the human body is scanned by a thin X-ray beam whose intensity loss is recorded by a detector and processed by a computer to produce a two-dimensional image which in turn is displayed on a screen.

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By F. Natterer: pp. 222. £27.50. (John Wiley & Sons Ltd, 1986)

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By computerized tomography (CT) we mean the reconstruction of a function from its line or plane integrals, irrespective of the field where this technique is applied. In the early 1970s CT was introduced in diagnostic radiology and since then, many other applications of CT have become known, some of them preceding the application in radiology by many years.

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