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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.

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

Introduction to the mathematics of computed tomography
This book provides a unified view of tomographic techniques, a common mathematical framework, and an in-depth treatment of reconstruction algorithms. It focuses on the reconstruction of a function from line or plane integrals, with special emphasis on applications in radiology, science, and engineering. The Mathematics of Computerized Tomography covers the relevant mathematical theory of the ...

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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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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.

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