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tomography are
relatively simple to
grasp, but

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implementing the
computation and
reconstruction of the
collected data is a
much more math-y
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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

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performing the
reconstructions in
practice one needs to
use a digital
computer.

*Tomography -
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The basic
mathematics behind
tomography was
worked out by the
mathematician

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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
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Tomography (CT) $f(x)$
= density of the cross-
section at x ? R^2 (slide
1). L = the line of X-

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rays, $I(x)$ = the
intensity of X-rays at x
? L . Physics: $I(x)$ is
decreased

proportional to $f(x)$:
 $dl/dx = -f(x)I(x)$ $dI/I =$
 $-f(x)dx$. Measured
data: $I_{in} I_{out} = e^{-Rf(L)}$
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