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imaging. In addition to
the purely
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these algorithms, the
book also discusses
the artifacts caused
by the nature of the
various forms of
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CT, Helical CT and
Multislice CT

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Marjolein van der
Glas August 29, 2000
Abstract The total
attenuation suffered
by one beam of x-rays
as it travels in a
straight line through
an object can be
represented by a line
integral. Combin-ing a
set of line integrals
forms a projection.

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overview of the engineering and signal processing algorithms necessary for tomographic imaging. In addition to the purely mathematical and algorithmic aspects of these algorithms, the book also discusses the artifacts caused by the nature of the various forms of

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Aninash C. Kak,
Malcolm Slaney. For
someone with a little
background and a lot

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of determination, this book provides a good basic grounding in the issues of tomographic reconstruction and the basic mathematical tools involved.

Discussion starts slowly, with a chapter that establishes the vocabulary and notation of the signal processing involved.

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Aninash C ...~~

Computerized tomography is a revolutionary method of x-ray imaging that uses a digital computer to produce cross-sectional images of x-rayed bodies. The contract work reported

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examined the technical feasibility of inspecting reactor components (especially pipe welds and fuel rods) with this imaging technique.

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tomographic imaging

is the Fourier Slice

Theorem which

relates the measured

projection data to the

two-dimensional

Fourier transform of

the object cross

section. This chapter

will start with the

definition of line

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integrals and how they are combined to form projections of an object.

Applied

~~3 Algorithms for
Reconstruction with
Nondiffracting
Sources~~

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Imaging by sections
or sectioning using a
penetrative wave.

Fig.1: Basic principle
of tomography:

superposition free
tomographic cross
sections S 1 and S 2
compared with the
(not tomographic)
projected image P.

Median plane sagittal
tomography of the
head by magnetic

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resonance imaging.

Tomography is imaging by sections or sectioning through the use of any kind of penetrating wave.

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~~Wikipedia~~

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The overall goal of
this book is to
promote research and

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development of
imaging and
radioanalytical
techniques by
publishing high-quality
chapters in this
rapidly growing
interdisciplinary field.
This book discusses
the principles and
applications of
imaging and
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techniques across a

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wide spectrum of interdisciplinary science, technology and medicine, where these techniques are expected to make significant difference and contribution. It also explores the history of the field, current trends, and future directions. The book focuses mainly on cutting-edge

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applications, and
associated
equipments and
methods, such as
instrumentation
systems and
computing
hardware/software.

The primary target
audience for this book
includes students,
researchers,
clinicians, and
professionals who are

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interested in medical
and ground
penetrating radar
(GPR) imaging, and
radioanalytical
techniques.

This book presents
the most up-to-date
information on the
practice of cardiac
PET and hybrid
PET/CT. Each
chapter takes a step-

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by-step approach, from basic principles of instrumentation, imaging, and protocols to advanced discussions of current and future clinical applications.

Coverage also includes a perspective on other emerging imaging modalities, such as MRI, and the relative role of each.

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In addition, the volume details the technical aspects of cardiac PET and PET/CT imaging. A library of original cases completes the text by illustrating interpretation and technical challenges in cardiac PET and hybrid PET/CT.

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This cross-disciplinary book documents the key research challenges in the mathematical sciences and physics that could enable the economical development of novel biomedical imaging devices. It is hoped that the infusion of new insights from

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mathematical

scientists and
physicists will

accelerate progress in
imaging. Incorporating

input from dozens of
biomedical

researchers who

described what they

perceived as key

open problems of

imaging that are

amenable to attack by

mathematical

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scientists and
physicists, this book
introduces the
frontiers of biomedical
imaging, especially
the imaging of
dynamic physiological
functions, to the
educated
nonspecialist. Ten
imaging modalities
are covered, from the
well-established (e.g.,
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to the more computerized
speculative (e.g.,
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offer visions of the

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next generation of
surgical and
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techniques and of
image processing. A
final chapter provides
an overview of
mathematical issues
that cut across the
various modalities.

Machine learning
represents a
paradigm shift in

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tomographic imaging,
and image
reconstruction is a
new frontier of
machine learning.

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the needs of those
who want to catch the
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imaging. The book
targets graduate
students and
researchers in the
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Open networkized software, working datasets, and multimedia will be included. The first of its kind in the emerging field of deep reconstruction and deep imaging, Machine Learning for Tomographic Imaging presents the most essential elements, latest progresses and

Acces PDF Principles Of an in-depth perspective on this important topic. Imaging Clics In

At the heart of every
medical imaging
technology is a
sophisticated
mathematical model
of the measurement
process and an
algorithm to
reconstruct an image
from the measured

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data. This book provides a firm foundation in the mathematical tools used to model the measurements and derive the reconstruction algorithms used in most of these modalities. The text uses X-ray computed tomography (X-ray CT) as a 'pedagogical

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'machine' to illustrate important ideas and its extensive discussion of background material makes the more advanced

mathematical topics accessible to people with a less formal mathematical education. This new edition contains a chapter on magnetic

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resonance imaging (MRI), a revised section on the relationship between the continuum and discrete Fourier transforms, an improved description of the gridding method, and new sections on both Grangreat's formula and noise analysis in MR-imaging.

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concepts are
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classical and modern
image reconstruction
technologies, such as
two-dimensional (2D)

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parallel-beam and fan-beam imaging, three-dimensional (3D) parallel ray, parallel plane, and cone-beam imaging. This book presents both analytical and iterative methods of these technologies and their applications in X-ray CT (computed tomography), SPECT (single photon

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emission computed tomography), PET (positron emission tomography), and MRI (magnetic resonance imaging). Contemporary research results in exact region-of-interest (ROI) reconstruction with truncated projections, Katsevich's cone-beam filtered

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backprojection
algorithm, and
reconstruction with
highly undersampled
data with

ℓ_0 -minimization are
also included. This
book is written for
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researchers in the
field of biomedical
engineering
specializing in
medical imaging and

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image processing with
image reconstruction.

Gengsheng Lawrence

Zeng is an expert in

the development of

medical image

reconstruction

algorithms and is a

professor at the

Department of

Radiology, University

of Utah, Salt Lake

City, Utah, USA.

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This open access book gives a complete and comprehensive introduction to the fields of medical imaging systems, as designed for a broad range of applications. The authors of the book first explain the foundations of system theory and image processing, before

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highlighting several modalities in a dedicated chapter.

The initial focus is on modalities that are closely related to traditional camera systems such as endoscopy and microscopy. This is followed by more complex image formation processes: magnetic resonance

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