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One of the most exciting features of the fields of Radon transforms and tomography is the strong relationship between high-level pure mathematics and applications to areas such as medical imaging and industrial nondestructive evaluation.

Radon Transforms and Tomography

Proceedings of Symposia in Applied Mathematics An Introduction to X-ray tomography and Radon Transforms Eric Todd Quinto Abstract. This article provides an introduction to the mathematics behind

An Introduction to X-ray tomography and Radon Transforms

In mathematics, the Radon transform is the integral transform which takes a function f defined on the plane to a function Rf defined on the (two-dimensional) space of lines in the plane, whose value at a particular line is equal to the line integral of the function over that line.

Radon transform - Wikipedia

The Radon Transform and Local Tomography clearly explains the theoretical, computational, and practical aspects of applied tomography. It includes sufficient background information to make it essentially self-contained for most readers.

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Abstract Radon transforms and microlocal analysis in Compton scattering tomography James W Webber A thesis submitted to the University of Manchester

RADON TRANSFORMS AND MICROLOCAL ANALYSIS IN COMPTON

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MATHEMATICS OF COMPUTED TOMOGRAPHY (RADON TRANSFORM).

The Radon transform is a function of the polar coordinates . It is a linear operation with respect to the function being transformed. A graph of with and on orthogonal cartesian axes is called a sinogram .

CT Scans and the Radon Transform | ThatsMaths

2.4 The coordination system for the Radon transform17 3.1 Setup of the experiment including keyparts

such as the light source, the pinhole, the motor stages, the sample,

Optical Ptychographic Phase Tomography - UCL

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the Radon transform to a broad range of tomography problems. X-ray tomography is so useful, in general, because of an efficient, easy to implement, stable inversion method, filtered back projection, that gives excellent re-

AMS SHORT COURSE LECTURE NOTES Introductory Survey

MATHEMATICS OF MEDICAL IMAGING INVERTING THE RADON TRANSFORM KAILEY BOLLES

Abstract. Computed Tomography (CT) and other radial imaging techniques

MATHEMATICS OF MEDICAL IMAGING - Whitman College

Chapter 3 A Basic Model for Tomography We begin our study of medical imaging with a mathematical model of the measurement process used in x-ray tomography.

