

Radon Transforms And Tomography

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The mathematical basis for tomographic imaging was laid down by Johann Radon. It is applied in Computed Tomography to obtain cross-sectional images of patients. This

The Radon Transform and Medical Imaging - SIAM -

by Peter Kuchment-2014 / xvi + 240 pages / Softcover / ISBN: 978-1-611973-28-0 / List Price \$82.00 / SIAM Member Price \$57.40 / Order Code CB85

The Radon Transform and Medical Imaging (Society -

This book surveys the main mathematical ideas and techniques behind some well-established imaging modalities such as X-ray CT and emission tomography, as well as a

Radon Transforms and Tomography - American -

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The Radon Transform, Inverse Problems, and -

The Radon Transform, Inverse Problems, and Tomography: American Mathematical Society Short Course, January 3-4, 2005, Atlanta, Georgia Proceedings of Symposia in

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Product description. The Radon transform, which represents the scattering data arising from a tomographic scan, underpins the mathematical foundations of medical imaging.

On the V-Line Radon Transform and Its Imaging -

Radon transforms defined on smooth curves are well known and extensively studied in the literature. In this paper, we consider a Radon transform defined on a

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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

Tomography - Encyclopedia of Mathematics -

In tomography a fundamental role is played by the The Radon transform is connected to the Fourier transform Computed tomography, Proc. Symp. Appl. Math

Radon transforms on generalized Cormack's curves -

References from the article Radon transforms on generalized Cormack's curves and a new Compton scatter tomography modality

Compressed Sensing for Electron Tomography -

1/33 Introduction Radon transforms and compressed sensing Sparsity across application domains Experimental results References Compressed Sensing for Electron Tomography

The Radon Transform and Computerized Tomography - -

The word tomography comes from the Greek tomos meaning cut or slice. Computerized axial tomography (CAT), also referred to simply as computed tomography (CT

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Computerized Tomography, X-rays, and the Radon -

1 Computerized Tomography, X-rays, and the Radon Transform 1.1 Introduction The purpose of this chapter is to give an informal introduction to the subject of tomo-

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7 The Radon Transform and Computerized Tomography 7.1 Computerized axial tomography, a technique from the 1970s The word tomography comes from the Greek tomos

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