

Simulation of filtered-back projection reconstruction in computerized tomography

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Abstrak

A two dimensional layer or cross section of a three dimensional object can be reconstructed by means of a large number of one dimensional projections through this layer. Reconstruction a two dimensional phantom from its one-dimensional projection has been accomplished in this thesis using the technique where the input projection data of CT X-Ray is simulated. The qualities of reconstructed phantom from the projections have shown a good result compared to the original image. This reconstruction technique has been implemented on PC and the reconstructed image is displayed using VGA monitor.