

Interpolation methods of reconstruction in k-space

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Abstract

The problem of the restoration of magnetic resonance tomographs for irregular filling with the data of the free-induction slowdown signal, the measurement points in the gradient K-space was considered. The procedure of measuring signals with the magnitude of irregularity, which depends on the distance from the center of the area of the K-space, is realized. Interpolation methods have been proposed for completing missed measurements. The reconstructed tomograms for special conditions of a tomographic experiment are analyzed. For real tomograms, conditions are obtained for obtaining high quality visualization for incomplete set of signal data.

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