

Mathematical Methods in Image Reconstruction

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Auteur(s) : Natterer, Frank

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Résumé ou extrait : Mathematical Methods in Image Reconstruction provides a very detailed description of two-dimensional algorithms. For three-dimensional algorithms, the authors derive exact and approximate inversion formulas for specific imaging devices and describe their algorithmic implementation. Integral geometry is surveyed as far as is necessary for imaging purposes ; imaging techniques based on or related to integral geometry are briefly described in the section on tomography.

Sujet(s) : Algorithmes
Imagerie (technique)
Images, Traitement des
Reconstruction d'image
Techniques numériques
Tomographie (mathématiques)