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A CG-FFT Based Fast Full Wave Imaging Method and its Potential Industrial Applications by Zhiru Yu
Department of Electrical and Computer Engineering

A CG-FFT Based Fast Full Wave Imaging Method and its

The technique consists of an amalgamation of a spatially discrete scheme, consisting of the CG-FFT method and the complex discrete image (CDI) technique.

(PDF) A combined full-wave CG-FFT method for rigorous

In the conjugate gradient fast Fourier transform (CGFFT) method, the FFT is used to evaluate the convolution integrals. When the function to be transformed has discontinuities, the accuracy of ...

The CGFFT method with a discontinuous FFT algorithm

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The CG-FFT Method: Application of Signal Processing

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The Cg Fft Method Application Of Signal Processing

Abstract: The conjugate gradient fast Fourier transform (CG-FFT) method to analyze electromagnetic scattering by buried flat metallic objects of arbitrary shape and large size is presented. Due to the use of FFT in the spatial domain and spectral domain to handle a spatial-domain convolution, the electric field integral equation and scattered fields can be rapidly solved without evaluations of Sommerfeld integrals.

Application of the Spatial Spectral CG-FFT Method for the

Abstract: The authors propose the hybridization of the extended Born approximation (EBA) with the conjugate-gradient fast Fourier transform (CG-FFT) method to improve the efficiency of numerical solution of electromagnetic induction problems. This combination improves the solution efficiency in two ways.

The hybrid extended Born approximation and CG-FFT method

Analysis of Electromagnetic Scattering from Plasma Antenna Using CG-FFT Method Z. H. Qian & R. S. Chen & Z. H. Fan & P. L. Rui Received: 27 November 2006 /Accepted: 7 May 2007 / Published online: 12 March 2008 # Springer Science + Business Media, LLC 2008 Abstract A gaseous plasma column as an efficient radiator of electromagnetic waves is well known.

Analysis of Electromagnetic Scattering from Plasma Antenna

Conjugate Gradient Method $\hat{A} \in \mathbb{C}^{n \times n}$ direct and indirect methods $\hat{A} \in \mathbb{C}^{n \times n}$ positive definite linear systems ... the CG algorithm (among others) generates the Krylov sequence Prof. S. Boyd, EE364b, Stanford University 9 ... (FFT, wavelet, . . .) $\hat{A} \in \mathbb{C}^{n \times n}$ inverses of lower/upper triangular (by forward/backward substitution) ...

Conjugate Gradient Method - Stanford Engineering Everywhere

The resulting matrix equation is solved by the conjugate gradient (CG) method combined with the fast Fourier transform (FFT) to reduce the storage requirements and CPU time of the computer. The accuracy of the proposed CG-FFT method has been validated.

CG-FFT algorithm for three-dimensional inhomogeneous and

Iterative extended Born approximation $71 \hat{=} 9 \times 10^{2.5}$ CG $\hat{=}$ FFT at the reservoir level IEBA at the reservoir level 2 1.5 |E | 1 1 0.5 0 0.2 0.4 0.6 0.8 1 1.2 1.4 1.6 1.8 horizontal in $\hat{=}$ line distance to middle of reservoir [km] Figure 15.

Iterative extended Born approximation based on CG-FFT

The CG-FFT method : application of signal processing techniques to electromagnetics / Manuel F. Catedra ... [et al.] Artech House Boston 1995. Australian/Harvard Citation. Catedra, Manuel F. 1995, The CG-FFT method : application of signal processing techniques to electromagnetics / Manuel F. Catedra ...

The CG-FFT method : application of signal processing

Ei-efficient Space Domain Method of Moments for Large Arbitrary Scatterers in Planar Stratii-ed Media Jagath Kumara Halpe Gamage A dissertation submitted in partial ...

Ei-efficient Space Domain Method of Moments for Large Arbitrary

In this paper, the multifrontal method is employed to precondition the conjugate gradient (CG) algorithm with the block Toeplitz matrix based fast Fourier transform (FFT) technique for dense matrix equations from the mixed potential integral equation (MPIE) to enhance the computational efficiency of the CG-FFT algorithm.

Sparse approximate inverse preconditioned CG-FFT algorithm

The conventional method of moments, although accurate and flexible, is limited to small-scale problems because of its large requirement of computer memory and computation time. In this paper, we develop two fast methods, the weak-form conjugate- and biconjugate-gradient FFT methods, to solve the Fredholm integral equation of the second kind ...

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