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Numerical methods of complex analysis for solving problems of electrical impedance tomography

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The method and the appropriate algorithm of identification (reconstruction) of the conductivity coefficient according data of tomography of the applied potentials were proposed based on numerical methods of complex analysis (methods of quasiconformal mappings combined with finite difference methods, the summary representations methods by G. M. Polozhii, the domain decomposition alternating method by Schwarz, methods of the block iterations and methods for solving ill-posed problems by A. N. Tikhonov). See [1, 2, 3, 4, 5].

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