

ON THE SOLUTION OF BIG SYSTEMS OF EQUATIONS

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For the speeding up of the process of resolving the system of nonlinear algebraic equations of high dimensionality in sparse Jacobean by means of renumbering the unknowns, a closely filled fragment was selected. This allows changing Newtonian iterations for more expedient. The side effect of this replacement is compensated by the effectual recount of the solutions of linear systems based on Sherman-Morrison formula. The performance of suggested method is discussed.