

عنوان مقاله:

Global conjugate gradient method for solving large general Sylvester matrix equation

محل انتشار:

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خلاصه مقاله:

In this paper, an iterative method is proposed for solving large general Sylvester matrix equation $AXB+CXD = E$, where $A \in R^{n \times n}$, $C \in R^{n \times n}$, $B \in R^{s \times s}$ and $D \in R^{s \times s}$ are given matrices and $X \in R^{s \times s}$ is the unknown matrix. We present a global conjugate gradient (GL-CG) algorithm for solving linear system of equations with multiple right-hand sides. By defining a linear matrix operator and imposing some conditions on this operator, we demonstrate how to employ the GL-CG algorithm for solving large general Sylvester matrix equation.

Finally, some numerical experiments are given to illustrate the efficiency of the method

کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1995360>

