

Factorizations, Sweeping, Source Transfer, Potentials and Schwarz: One Algorithm

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Many of the modern iterative algorithms for the Helmholtz (or a more general PDE) operator have common ingredients. We show that all these algorithms can be understood in the framework of optimized Schwarz methods. They only differ in the particular choice on how to approximate the optimal transmission condition which contains a Dirichlet to Neumann operator, in the choice of the subdomain configuration, and in details of the implementation.

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