

# RBF STENCIL FOR POISSON EQUATION

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## TÓM TẮT:

In the paper we present a method for finding the weight vector called stencil with the help of RBF interpolation. This stencil is the foundation for constructing meshless finite difference scheme for boundary value problems. The results of numerical experiments show that the numerical solution obtained by RBF-FD with the stencils generated by Gauss RBF interpolation is much more accurate than the solution obtained by FEM.