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Narayan Thapa* (nthapa@cameron.edu), 2800 W Gore Blvd, Lawton, OK 73505. *On the Numerical Solution of Second Order Hyperbolic Nonlinear Partial Differential Equation*. Preliminary report.

Numerical methods are crucial in estimating parameters in nonlinear partial differential equations. In this work, we present a computational algorithm for approximate solutions of the adjoint system to estimate optimal parameters. We also discuss error at different noise levels and we present results from numerical experiments. (Received September 20, 2016)