

***Haar wavelet quasilinearization approach for numerical solution of Burger type equation via Lie group method***

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In this talk, an initial and boundary value problem for Burgers type equation is considered. With the help of Lie group approach, initial and boundary value problem for Burgers type equation reduced to an initial value problem for nonlinear ordinary differential equations. Moreover, the ordinary differential equations are solved to obtain soliton solutions. Further, Haar wavelet quasilinearization approach is applied to systems of ordinary differential equations for constructing numerical solutions of Burgers type equation. Numerical solutions are computed, and accuracy of numerical scheme is assessed by applying the scheme half mesh principal to calculate maximum errors.