

DESCRIPTION

BHS

Burgers' equation

$$u_t + uu_x = (0.01/\pi)u_{xx}$$

$$x \in [-1, 1], \quad t \in [0, 1]$$

$$u(0, x) = -\sin(\pi x)$$

$$u(t, -1) = u(t, 1) = 0$$

REFERENCES

- [1] Maziar Raissi, Paris Perdikaris, and George Em Karniadakis. Physics Informed Deep Learning (Part I): Data-driven Solutions of Nonlinear Partial Differential Equations.