DESCRIPTION

BHS

$$\Delta u(x,y) = e^{-x}(x - 2 + y^3 + 6y)$$
$$x, y \in [0,1]$$

$$u(0,y) = y^3$$
$$u(1,y) = e^{-x}(1 + y^3)$$
$$u(x,0) = xe^{-x}$$
$$u(x,1) = e^{-x}(x + 1)$$

$$u(x,y) = e^{-x}(x + y^3)$$

References

[1] Lagaris I E, Likas A, Fotiadis D I.Artificial neural networks for solving ordinary and partial differential equations[J].IEEE transactions on neural networks, 1998, 9(5): 987-1000.