



$$6. \quad \frac{\partial w}{\partial t} = a \frac{\partial}{\partial x} \left(w^n \frac{\partial w}{\partial x} \right) + bw + c_1 w^m + c_2 w^k.$$

References

- Galaktionov, V. A.**, Invariant subspaces and new explicit solutions to evolution equations with quadratic nonlinearities, *Proc. Roy. Soc. Edinburgh*, Vol. 125A, No. 2, pp. 225–448, 1995.
- Kapsov, O. V. and Verevkin, I. V.**, Differential constraints and exact solutions of nonlinear diffusion equations, *J. Phys. A: Math. Gen.*, Vol. 36, pp. 1401-1414, 2003.
- Polyanin, A. D. and Zaitsev, V. F.**, *Handbook of Nonlinear Partial Differential Equations* (Section 1.2.2), Chapman & Hall/CRC, Boca Raton, 2004.