Extended Homogeneous Balance Method and Lax Pairs, Backlund Transformation

BAI Cheng-Lin

Department of Communication Engineering, Liaocheng Teachers' College, Liaocheng 252059, Shandong Province, China

Abstract: Using the extended homogeneous balance method, which is very concise and primary, Lax pairs and Backlund transformation for most nonlinear evolution equations, such as the compound KdV-Burgers equation and nonlinear diffusion equation are obtained.

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