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Summary: Using the improved exp(−ϕ(ξ)) expansion method, the new accurate solutions of the foam model equation, the coupled Higgs equation, the coupled Klein-Gordon Zakharov equations are obtained. Practice shows that this method is simple and convenient, and is very important for studying other types of nonlinear equations.

MSC:
35Q51 Soliton equations
35Q53 KdV equations (Korteweg-de Vries equations)
35Q99 Partial differential equations of mathematical physics and other areas of application

Keywords:
foam model equation; coupled Higgs equation; coupled Klein-Gordon Zakharov equations; new exact solution