

Lame Function and Multi-order Exact Solutions to Nonlinear Coupled Systems

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Abstract: Based on the Lamé function and Jacobi elliptic function, the perturbation method is applied to some nonlinear coupled systems, and there many multi-order solutions are derived to these nonlinear coupled systems.

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Key words: nonlinear coupled system, perturbation method, Lamé function, Jacobi elliptic function, multi-order solutions

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