

## Applications of Computer Algebra in Solving Nonlinear Evolution Equations

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**Abstract:** With the use of computer algebra, the method that straightforwardly leads to travelling wave solutions is presented. The compound KdV--Burgers equation and KP--B equation are chosen to illustrate this approach. As a result, their abundant new soliton-like solutions and period form solutions are found.

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**Key words:** computer algebra, travelling wave solution, nonlinear evolution equation

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