



**RATIONAL HYPERBOLIC FUNCTIONS METHODS FOR THE  
(2 + 1)-DIMENSIONAL PERTURBED-KdV EQUATION**

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**Abstract**

By using the rational hyperbolic functions methods, we study the (2 + 1)-dimensional Perturbed-KdV equation, the existence of solitary wave solution, solitary patterns solutions and periodic wave solutions are obtained. Moreover, the obtained results in this work clearly demonstrate the reliability of the methods that were used.

**Keywords and phrases:** solitary wave solution, solitary patterns solution, periodic wave solution, the rational hyperbolic functions methods, the (2 + 1)-dimensional perturbed-KdV equation.

**Pioneer Journal  
of Advances in  
Applied  
Mathematics**



Pioneer Scientific  
Publisher