



**NEW SOLUTIONS FOR HIROTA-SATSUMA EQUATION
USING ADOMIAN DECOMPOSITION METHOD**

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Abstract

In this work, the Adomian decomposition method (ADM) is used to discuss the solutions to the generalized Hirota-Satsuma coupled KdV equations. The solutions which we obtain in this case are in the form of convergent power series with easily computable components.

Keywords and phrases: Hirota-Satsuma, Adomian decomposition, coupled KdV.

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