# FINITE VOLUME METHOD FOR SOLVING EQUATIONS OF WATER WAVES GENERATED BY A MOVING BOTTOM

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ABSTRACT

This article presents the numerical solution of shallow water equations in which the wave was generated by bottom motion. To build the model, mass conservation law was applied. The model is hyperbolic therefore we applied finite volume method to approximate the solution. In this research, discritization was done using Godunov Scheme with an approximate Riemann solver. To verity the method, it will be applied in three types of motion.

Kata Kunci: *Finite Volume Method, Water Waves, Moving Bottom*