

**THE APPLICATION OF NUMERICAL METHODS AND  
MATHEMATICS IN THE DERIVATIONS OF UNIT  
HYDROGRAPHS TO HYDROGRAPHY**

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## **ABSTRACT**

Based on the previous researches, we can see that the exponential function has been used. Even though the exponential function of the recession is quite an old method, this function is still widely used. Least squares method was habitually used to decide an ideal unit hydrograph (UH) for a watershed. For the linear programming method, these methods were used to optimizing operations of a certain conditions with some constraints. In this research, two methods have been chosen to calculate unit hydrograph.

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