Study of Methods of Water Surface Profile Calculation in Gradually Varied Flow

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ABSTRACT

This research paper is mainly about gradually varied flow. There are six parts to be considered in this research paper:

- 1. Introduction to gradually varied flow
- 2. Basic assumption for gradually varied flow
 - 3. Dynamic equation for gradually varied flow
 - 4. Characteristic and classification of flow profile
 - 5. Introduction of the computer program, Dodson Hydrocalc hydraulics
 - 6. Computation of gradually varied flow
 - Graphical and Integration method
 - > Direct Integration method
 - > Direct Step method
 - > Standard Step method
 - > Numerical Integration method

This research paper provides the first point of references and can be a guideline to anyone who wants to calculate the water surface profile or wants to know more about gradually varied flow.