

FM08.xls Revision No: 02 Date: April 21, 2021

ELECTRICAL ANALOGY APPARATUS MODEL: FM08



RANGE OF EXPERIMENTS:

• To draw flow net using electrical analogy for sudden contraction & sudden enlargement.

DESCRIPTION

Basic aim of this equipment is to verify the very fundamental Flow Net Rule. Flow lines and equipotential lines must always intersect at right angles. As we now, ground water flows through the voids in soil which are interconnected. This flow may be called seepage since the velocities are very small. Such water flows from a higher energy to a lower energy and behaves according to the general principles of fluid mechanics.

The experimental set up consists of a transparent tank of 400 X 450 X 75 mm. In this tank model under study is installed. A sample model arrangement is supplied with the setup.



A probe is mounted on an arrangement such that it can be moved in two directions. X and Y coordinate of the probe at each be location can be noted using scale provided. Necessary potential can be given with the help of analogue field plotter

INSTRUCTION MANUAL

Self -explanatory operating manuals are provided with each system. Detailed theory as well as practical exercises is also included in the manual

LIST OF EXPERIMENT

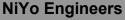
To draw flow net using electrical analogy

COMPONENTS

- Experimental Setup
- Analogue Field Plotter

SERVICES REQUIRED

• 230 V AC single phase supply



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(2) Photographs are indicative only