

SEDIRACK

THICKENING PARAMETERS MEASUREMENT

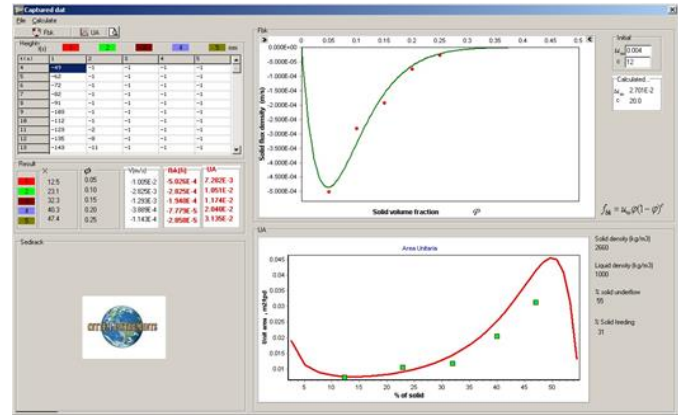
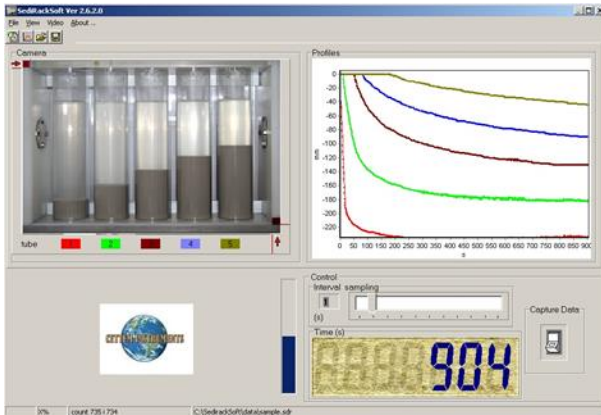
Velocidad de sedimentación y consolidación del sedimento

CETTEM developed a method that, regardless of the operator, it automatically determines and delivers the required parameters to calculate the Unit Area of thickening.

The SEDIRACK is a laboratory instrument that allows to perform five simultaneous tests, each with different concentration or flocculant addition.

The height of the water-suspension interface is measured automatically in each test tube by a video camera and a laptop. The data registered is processed online by the software and this one delivers the initial settling velocity in each of the five tubes. With this information, the software calculates the solid flux density and the unit area from the Coe&Clevenger method for each concentration studied.

By a no-linear optimization method, the software then fits a curve to the experimental solid flux density data, calculates the Unit Area function between the feed and discharge concentrations and chooses its maximum.



Characteristics

- Portable equipment for laboratory usage.
- Package includes the operation manual, laptop, operation software y 5 test tubes.

