FLOOD MODELLING

3-0-0-0-9

Depth-Averaging of conservation laws, Approximation of Shallow Water Equation: Kinematic Wave, Diffusive Wave, Local Inertia, Full Dynamic Models; Solution Techniques: Basics of Finite Difference and Finite Volume Methods, convergence, consistency, stability, implicit and explicit schemes, Method of Characteristics; Channel Networks: Distributed Flow Routing; Unsteady flows in open channels; Sediment Transport.