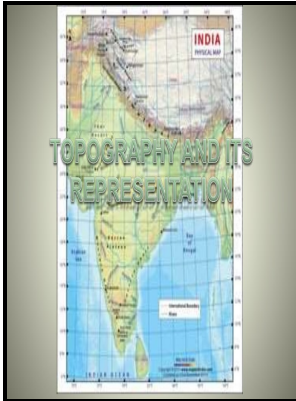


Method of calculating the total flow from a given sea surface topography

Goddard Space Flight Center - Rain Gauge



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Finite Difference Method

In hilly country, where orographic effects may lead to large and consistent rainfall variations in short distances, it may be necessary to adopt the high densities suggested in Table 3.

Finite Difference Method

When one bucket tips, the other bucket quickly moves into place to collect rainwater. This representation of the governing equation is an expression of conservation of mass, or a water balance, where the inflows and outflows at the surface balance gain or loss from sources or sinks and change in storage within the volume.

Finite Difference Method

The heterogeneous formulation implicitly incorporates the boundary conditions by constructing finite-difference representations using the equation of motion for heterogeneous media. A high-resolution 2-D problem with around 700×700 grid points and billions of tracers Rudolf et al. These sensors will send small-sized messages with a low periodicity.

Finite Difference Method

In order to solve the space partial derivative in the Cartesian coordinates during numerical simulation, RSG algorithm first calculates the space partial derivatives of the variables along the diagonals d_1 , d_2 , d_3 , and d_4 in 3D space, then use these space partial derivatives to compute the space partial derivatives along the three axes x , y , and z in Cartesian coordinates, as For the finite-difference algorithm, the finite difference operators need to be substituted into the equations to replace the partial-derivative terms.

Finite Difference Method

The resolution is better when the least count k is small and the clock measuring δt is precise. The more frequently used techniques include simple

numerical procedures averaging or interpolation, interpolation from isohyetal maps or Thiessen polygons and trend surfaces. The dashed lines represent the overflow from tanks and collectors.

Finite Difference Method

However, variable coefficients and nonlinearities, such as the heat advection term, greatly complicate the convergence. When the depth measurement is recorded ultrasonically the meter head is again usually fixed to the chamber wall. Since the same amount of rain precipitation is assumed to be occurring around the container, the area of collection is not a factor.

Finite Difference Method

The reliability to multiple fault isolation of signature matrix in Fig. Both gauges measure total liquid precipitation and precipitation rate.

Rain Gauge

Moreover, spatial discretization can be different in each vertical layer.

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