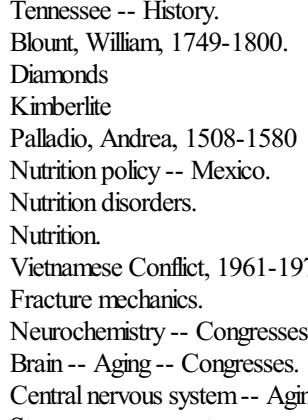


Measurement and computation of streamflow

U.S. G.P.O. - Measurement of River Discharge

Description: -

- Building -- Estimates -- France.
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 Tennessee -- History.
 Blount, William, 1749-1800.



Diamonds
 Kimberlite
 Palladio, Andrea, 1508-1580
 Nutrition policy -- Mexico.
 Nutrition disorders.

Nutrition.

Vietnamese Conflict, 1961-1975.

Fracture mechanics.

Neurochemistry -- Congresses.

Brain -- Aging -- Congresses.

Central nervous system -- Aging -- Congresses.

Stream measurements.

Streamflow. Measurement and computation of streamflow

-

2175

Geological Survey water-supply paper ; Measurement and computation of streamflow
 Notes: Includes bibliographies and index.
 This edition was published in 1982

Tags: #Measurement #of #River
 #Discharge

Hydrometry: measuring the flow rate of a river, why and how?

In other countries, including the U. However, there is one exception; if the banks have little freeboard at the maximum discharge before the installation of an artificial control, a flume installation is

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generally preferable to a weir, in order to minimize the backwater caused by the structure. After the many considerations discussed on the preceding pages have been weighed, the precise sites for the recording stage gage and for the cableway for discharge measurements if needed are selected.

How Streamflow is Measured

Channel control consists of all the physical features of the channel that determine the stage of the river at a given point for a given rate of flow. Streamgages operated by the USGS provide stage measurements that are accurate to the nearest 0.

Measuring Streamflow

WIRE-WEIGHT GAGE The wire-weight gage used in the U. The tailwater elevations corresponding to those discharges are used to determine the minimum crest elevation permissible for the proposed artificial control at the lower discharges, under conditions of free flow or allowable percentage of submergence.

Streamflow Measurement & Sampling

This irregularity can only be approached by permanently measuring the flows of these rivers. On the basis of review of literature and qualitative index developed Table , we concluded that, for monitoring small mountain streams, timed volume method is apt and provides a high degree of accuracy. The principles of hydrometry are not fundamentally changed: a calibration relationship of height, velocity s , flow rate remains to be



calibrated throughout the operation of the measurement site.

How Streamflow is Measured

Many of the procedures for determining discharge that are discussed in volume 2 require specialized instrumentation to obtain field data that supplement the observation of stage.

5.1 Stream Flow

The disadvantages are the need for an observer and the lack of accuracy of the estimated continuous-stage graph drawn through the plotted points of observed stage. However, in most cases the curve bends strongly, making it difficult to plot a projection accurately. ARTIFICIAL CONTROLS An artificial control is a structure built in a stream channel to stabilize and constrict the channel at a section, and thereby simplify the procedure of obtaining accurate records of discharge.

Measurement and computation of streamflow (1982 edition)

The clock stops when the orange passes fully under the downstream transect line.

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