

Several Methods For Discharge Measurements Of Floods

Discharge Measurements at Gaging Stations Discharge and Velocity Measurements Single-velocity Method in Measuring Discharge Discharge Measurements at Gaging Stations Evaluation of Acoustic Doppler Current Profiler Measurements of River Discharge Methods of Discharge Measurements of Streams Measurement of Discharge by the Moving-boat Method General Field and Office Procedures for Indirect Discharge Measurements Hydrometric Surveys (stream Measurements) in the Province of Alberta and Saskatchewan for the Year Ended September 30, 1917 Hydrography of Nicaragua, by Arthur Powell Davis Streamflow Measurement Comparison of Tracer-dilution and Current-meter Discharge Measurements in a Small Gravel-bed Stream, Little Lost Man Creek, California Report of Progress of the Division of Hydrography for the Calendar Years 1893-1895 Hydrology of the State of New York A Laboratory Manual of Physics and Applied Electricity Streamflow Measurement Report Rivers Hydrometric Survey in the Provinces of Alberta and Saskatchewan ... House documents D. Phil Turnipseed Andreas Mueller P. W. Strilaeff Thomas J. Buchanan Scott E. Morlock Royal Sylvester Webster George Fitzgerald Smoot M. A. Benson Canada. Department of the Interior Arthur Powell Davis R W Herschy Gary W. Zellweger Frederick Haynes Newell George W. Rafter Edward Leamington Nichols Reginald W. Herschy New York. State Geologist Leveson Francis Vernon-Harcourt Canada. Reclamation Service

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the techniques and standards for making discharge measurements at streamflow gaging stations are described in this publication the vertical axis rotating element current meter principally the price current meter has been traditionally used for most measurements of discharge however advancements in acoustic technology have led to important developments in the use of acoustic doppler current profilers acoustic doppler velocimeters and other emerging technologies for the measurement of discharge these new instruments based on acoustic doppler theory have the advantage of no moving parts and in the case of the acoustic doppler current profiler quickly and easily provide three dimensional stream velocity profile data through much of the vertical water column for much of the discussion of acoustic doppler current profiler moving boat methodology the reader is referred to u s geological survey techniques and methods 3 a22 mueller and wagner 2009

papers of the short course on discharge and velocity measurements zurich aug 1987 on discharge measurement and calibration point measures of velocity measurement of velocity fields and needed developments

in 1968 an analysis was made of discharge measurement records for a number of gauging stations located in manitoba and northwest territories the purpose of the analysis was to discover the relationship between discharge measurements made on the basis of single velocity observations in the cross section and discharge measurements made using traditional techniques the relationship appeared to be very promising and the results were documented in the report preliminary investigation into relationship between discharge computed using single velocity in a cross section and discharge measured using standard techniques dated september 19 1968 at the international hydrological decade symposium on hydrometry at koblenz germany in september 1970 mr p w strilaeff covered this subject in his paper entitled measurement of discharge under ice cover this paper was subsequently published as technical bulletin no 29 by inland waters branch department of energy mines and resources ottawa canada this summary report is based on a more intensive and exhaustive analysis of the relationship by w bilozor and suggests procedures to be followed when applying the single velocity method in discharge measurement work summary p vii

the method of determining the discharge of large streams is that in which the area of cross section is multiplied by the velocity per sec of the water passing through the section the velocity can be measured by the following methods 1 by floats 2 current meters 3 pitots tube 4 can be determined by use of kutter s formula leaf 1

describes procedures for measuring discharge in large streams by running a boat across the stream while taking sonic sounder recordings and current meter readings of the combined stream and boat speeds

the second edition of streamflow measurement meets the demands of engineers and managers in the water industry on how to obtain information on the flow in the world s rivers in view of the decreasing availability of usable water it deals with all aspects of establishing operating and maintaining streamflow measurement stations to ensure they prov

too little water or too much in either case streamflow measurement is crucial climate change could significant affect water resources and flood management streamflow measurement is

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