Several Methods For Discharge Measurements Of Floods

Discharge Measurements at Gaging Stations Geological Survey Water-supply PaperDischarge and Velocity MeasurementsDischarge Measurements at Gaging StationsSome Desert Watering Places in Southeastern California and Southwestern NevadaSingle-velocity Method in Measuring DischargeEvaluation of Acoustic Doppler Current Profiler Measurements of River DischargeHydrology of the State of New YorkHydrometric Surveys (stream Measurements) in the Province of Alberta and Saskatchewan for the Year Ended September 30, 1917Methods of Discharge Measurements of StreamsReport of Progress of the Division of Hydrography for the Calendar Years 1893-1895A Laboratory Manual of Physics and Applied Electricity Minutes of Proceedings of the Institution of Civil EngineersRiversSessional PapersJunior course in general physics, by Ernest Merritt and Frederick J. RogersRivers and CanalsGeneral Field and Office Procedures for Indirect Discharge MeasurementsSessional Papers of the Dominion of CanadaWater Supply Bulletin D. Phil Turnipseed Andreas Mueller Thomas J. Buchanan Walter Curran Mendenhall P. W. Strilaeff Scott E. Morlock George W. Rafter Canada. Department of the Interior Royal Sylvester Webster Frederick Haynes Newell Edward Leamington Nichols Institution of Civil Engineers (Great Britain) Leveson Francis Vernon-Harcourt Canada. Parliament Edward Leamington Nichols Leveson Francis Vernon-Harcourt M. A. Benson Canada, Parliament

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the techniques and standards for making discharge mea surements 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 dop pler 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 geo logical 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

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