

Example 14.1. Design a suitable cross-drainage work, given the following data at the crossing of a canal and a drainage.

Canal

Full supply discharge	= 32 cumecs
Full supply level	= R.L. 213.5
Canal bed level	= R.L. 212.0 m.
Canal bed width	= 20.
Trapezoidal canal section with $1\frac{1}{2} H : 1 V$ slopes.	
Canal water depth	= 1.5 m.



Drainage

High flood discharge	= 300 cumecs.
High flood level	= 210.0 m.
High flood depth	= 2.5 m.
General ground level	= 212.5 m.

Solution. Since the drainage is of a large size, work of type III will be adopted. Further, because the canal bed level (212.0 m) is much above the H.F.L. of drainage (i.e. 210.0 m) an aqueduct will be constructed. The earthen banks of the canal will be discontinued and the canal water taken in a concrete trough. For effecting economy, the canal shall be flumed.

Step 1. Design of Drainage Waterway

Lacey's regime perimeter = $P = 4.75 \sqrt{Q}$

where Q = High flood discharge of drain
= 300 cumecs (given)

$P = 4.75 \cdot \sqrt{300} = 82.3 \text{ m.}$

Design Hydraulic Structures Lecture Notes

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Design Hydraulic Structures Lecture Notes:

Flood Forecasting and Hydraulic Structures P. V. Timbadiya, Prem Lal Patel, Vijay P. Singh, Vivek L. Manekar, 2023-08-31

This book comprises the proceedings of the 26th International Conference on Hydraulics Water Resources and Coastal Engineering HYDRO 2021 focusing on broad spectrum of emerging opportunities and challenges in the field of flood forecasting and hydraulic structures It covers a range of topics including but not limited to early warning system urban flood modelling and management dam hazard classification river training and protection works structural and non structural measures for flood mitigation assessment and development of flood vulnerability hazard and risk maps rehabilitation of old dams streamflow turbines canal operation and related structure operation and management of dams including their instrumentation etc Presenting recent advances in the form of illustrations tables and text it offers readers insights for their own research In addition the book addresses fundamental concepts and studies in the field of flood forecasting and hydraulic structures making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics water resources and coastal engineering

Fluid Mechanics and Hydraulics P. V. Timbadiya, P. L. Patel, Vijay P. Singh, Bandita Barman, 2023-06-27 This book comprises the proceedings of the 26th International Conference on Hydraulics Water Resources and Coastal Engineering HYDRO 2021 focusing on broad spectrum of emerging opportunities and challenges in the field of fluid mechanics and hydraulics It covers a range of topics including but not limited to experimental and computational fluid mechanics sediment dynamics environmental impact assessment of water resources projects environmental flows pollutant transport etc Presenting recent advances in the form of illustrations tables and text it offers readers insights for their own research In addition the book addresses fundamental concepts and studies in the field of flood forecasting and hydraulic structures making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics water resources and coastal engineering

Design and Construction of Urban Stormwater Management Systems American Society of Civil Engineers, 1993-01-01 Prepared by the Task Committee of the Urban Water Resources Research Council of ASCE Copublished by ASCE and the Water Environment Federation Design and Construction of Urban Stormwater Management Systems presents a comprehensive examination of the issues involved in engineering urban stormwater systems This Manual which updates relevant portions of Design and Construction of Sanitary and Storm Sewers MOP 37 reflects the many changes taking place in the field such as the use of microcomputers and the need to control the quality of runoff as well as the quantity Chapters are prepared by authors with experience and expertise in the particular subject area The Manual aids the practicing engineer by presenting a brief summary of currently accepted procedures relating to the following areas financial services regulations surveys and investigations design concepts and master planning hydrology and water quality storm drainage hydraulics and computer modeling

Regulations and Courses for Internal Students University of London, 1916 General Catalog Colorado School of Mines, 1914 *Sediment Transport*

in Irrigation Canals Herman Depeweg, Krishna P. Paudel, Néstor Méndez V, 2014-10-06 Sediment transport in irrigation canals influences to a great extent the sustainability of an irrigation system Unwanted erosion or deposition will not only increase maintenance costs but may also lead to unfair unreliable and unequitable distribution of irrigation water to the end users Proper knowledge of the characteristics including behaviour and transport of sediment will help to design irrigation systems plan efficient and reliable water delivery schedules to have a controlled deposition of sediments to estimate and arrange maintenance activities etc The main aim of these lecture notes is to present a detailed analysis and physical and mathematical descriptions of sediment transport in irrigation canals and to describe the mathematical model SETRIC that predicts the sediment transport deposition and entrainment rate as function of time and place for various flow conditions and sediment inputs The model is typically suited for the simulation of sediment transport under the particular conditions of non wide irrigation canals where the flow and sediment transport are strongly determined by the operation of the flow control structures The lecture notes will contribute to an improved understanding of the behaviour of sediments in irrigation canals They will also help to decide on the appropriate design of the system the water delivery plans to evaluate design alternatives and to achieve an adequate and reliable water supply to the farmers

6th international congress International Association of Engineering Geology, volume 4 G. Herget, 2026-02-02 The Proceedings of the 6th international congress International Association of Engineering Geology volume 4 Comptes rendus held in Amsterdam Netherlands on the 6 10 August 1990 Including 500 papers from authors from 52 different countries The four main symposia comprised of topics that included use of computers in Engineering Geology pollution environmental protection and waste disposal coastal engineering and Engineering Geology in the oil industry

Quarterly of the Colorado School of Mines, 1912
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Columbia University. School of Engineering and Applied Sciences, 1930 **Annual Register**, 1907 **Catalogue ... and Announcements** University of Minnesota, 1905 Subject Catalog, 1981 Library of Congress, 1981 Host Bibliographic Record for Boundwith Item Barcode 30112075860889 and Others, 1880 *College of Engineering (University of Michigan) Publications* University of Michigan. College of Engineering, 1926 Also contains brochures directories manuals and programs from various College of Engineering student organizations such as the Society of Women Engineers and Tau Beta Pi

Quarterly of the Colorado School of Mines ... Colorado School of Mines, 1918 **Classification Bulletin of the United States Patent Office ...** United States. Patent Office, 1907 Annual Report of the Chief of Ordnance ... United States. Army. Ordnance Department, 1902 Annual Reports of the Secretary of War United States. War Department, 1902

Directory of Published Proceedings, 1993

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