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	th 1 1 H: 1 V slopes.
Canal water depth	=1.5m.
Drainage	Annual Control of the
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 
$$Q = \text{High flood discharge of drain}$$
  
= 300 cumecs (given)  
 $P = 4.75 \cdot \sqrt{300} = 82.3 \text{ m}.$ 

# **Design Hydraulic Structures Lecture Notes**

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damage The book aims to furnish global civil engineers with cutting edge research and engineering examples pertaining to the safety and hydrodynamics of hydraulic structures with a particular emphasis on dam safety and inspection It endeavors to inspire novel insights and research avenues for the readers and provide some experiences and results for disciplinary research in this field The topics of this book include but are not limited to the following 1 Structural Safety and Intelligent Monitoring of Dams 2 Study of Hydraulic Soil Stability and Seepage Effects 3 Hydrodynamic Characterization and Flood Control System Construction Flood Forecasting and Hydraulic Structures Manish Pandey, N. V. Umamahesh, Z. Ahmad, Manousos Valyrakis, 2025-01-21 This book presents the select proceedings of the 28th International Conference on Hydraulics Water Resources River and Coastal Engineering HYDRO 2023 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 early warning system urban flood modelling and management dam hazard classification river training and protection works and structural and non structural measures for flood mitigation assessment and development of flood vulnerability The book also presents latest developments in topics such as hazard and risk maps rehabilitation of old dams streamflow turbines canal operation and related structure and operation and management of dams including their instrumentation 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 Irrigation design manual Food and Agriculture Organization of the United Nations, 2023-03-27 and coastal engineering Introduction about what this manual is covering concentrating on Large Scale Irrigation LSI diversion barrage or weir intake with auxiliary structures and most common conveyance structures suitable for LSI A very brief overview of an approach to match water needs with water availability demand vs supply with references and links to Food and Agriculture Organization FAO literature that is covering the topic in detail A brief reference to the most common methods to obtain necessary hydrological parameters for IRR scheme design A very brief overview of the importance of knowledge of geological conditions and the investigation needed to obtain geotechnical design parameters including the most common geotechnical tests to obtain design parameters Planning phase considerations regarding diversion and intake structure discussing the role of the main components More technical discussion on each component of the weir or intake including formula and worked examples hydraulic and structural computations Conceptual hydraulic and structural considerations of main conveyance components with emphasis and more detail on most used components such as canals siphons aqueducts retaining walls etc A very brief overview of the approach to irrigation water management and Operations Maintenance O M with references and links to FAO literature that is covering the topic in detail Standard specification for irrigation construction material 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 Hydraulic Designs of Pipelines, Intakes and Outlets Sheng T. Hsu, 2025-02-21 Pipelines are essential facilities for the transportation of fluids in various industries. This book addresses hydraulic design considerations of integrated pipeline systems including intakes conduits and outlets Based on the author's experience of over 50 years working with hydraulic designs of structures as well as designs analyses and troubleshooting of pipeline systems the book discusses actual design practice and presents a range of real world examples of projects conducted and participated in by the author This applied approach gives the book a uniquely practical focus Hydraulic Designs of Pipelines Intakes and Outlets serves as a reference for practitioners as well as a textbook for postgraduate students A New Approach to Sediment Transport in the Design and Operation of Irrigation Canals Herman Depeweg, Néstor Méndez V, 2007-04-05 The transport of sediment greatly influences the sustainability of an irrigation system Erosion and deposition not only increase maintenance costs but may result in an inequitable and inadequate distribution of irrigation water Understanding the behaviour and transport of sediment allows efficient planning and reliable water delivery schedules Breakwaters and Closure Dams Kees d'Angremond, 2018-04-04 Breakwaters and closure dams belong to the most spectacular hydraulic structures They are exposed to the most severe loading by waves and currents either during their construction or during their life cycle Design and construction of these structures are so vitally interrelated that a proper understanding requires a thorough knowledge of the th **Colorado School of Mines Quarterly** ,1918 Quarterly of the Colorado School of Mines ,1912 Recent Advances in Civil Engineering for Sustainable Communities N. Vinod Chandra Menon, Sreevalsa Kolathayar, Hugo Rodrigues, K. S. Sreekeshava, 2024-03-25 This book presents select proceedings of the International Conference on Interdisciplinary Approaches in Civil Engineering for Sustainable Development IACESD 2023 The topics covered include geographic information systems GIS and building information modeling BIM integration of numerical methods for fluid flow modeling and the revolutionary potential of 3D printing within the construction industry This book serves as a resource material for researchers and industry professionals interested in developing solutions for sustainable

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