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Hydraulics 1: Course notes Staff Dr G F  
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Contains manuscript, typescript and mimeographed materials compiled by Professor Charles Gilman Hyde for his course in Hydraulics (Civil Engineering 110) at the University of California.

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.

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This book presents the theory and computation of open channel flows,



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hydrostatic-based shallow water hydraulic models • Detailed treatment of steady open channel flows, including the computation of transcritical flow profiles • General analysis of gate maneuvers as the solution of a Riemann problem • Presents modern shock capturing finite volume methods for the computation of unsteady free surface flows • Introduces readers to movable bed and sediment transport in shallow water models • Includes numerical solutions of shallow water hydraulic models for non-hydrostatic steady and unsteady free surface flows This book is suitable for both undergraduate and graduate level students, given that the theory and numerical methods are progressively introduced starting with the basics. As supporting material, a collection of

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source codes written in Visual Basic and inserted as macros in Microsoft Excel® is available. The theory is implemented step-by-step in the codes, and the resulting programs are used throughout the book to produce the respective solutions.

Ever since the publication in 1997 the original Scour Manual has helped many practising hydraulic engineers to deal with scour processes near hydraulic structures. In recent years new insights, such as probabilistic calculations, offered new opportunities to design structures more economically. These new insights are included in this update of the original Scour Manual, which is focussing entirely on current-related scour. This manual provides the engineer with useful practical

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methods to calculate the dimensions of scour holes in the pre-feasibility and preliminary stages of a project, and gives an introduction to the most relevant literature. This updated Scour Manual contains guidelines that can be used to solve problems related to scour in engineering practice and also reflects the main results of all research projects in the Netherlands in recent decades. The so-called Breusers equilibrium method has a central role, which can basically be applied to all situations where local scour is expected. The method allows to predict the scour depth as a function of time, provided that the available knowledge about scour at the specific structure is sufficient. For structures with insufficient knowledge available, alternative scour prediction rules are presented.

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The treatment of local scour is classified according to the different types of structures. Each type of structure is necessarily schematised to a simple, basic layout. The main parameters of a structure and the main parts of the flow pattern near a structure are described briefly insofar they are relevant to the description of scour phenomena. New scour formulas for the equilibrium scour have been elucidated. Evaluating a balance of forces for a control volume, it is possible to develop scour equations for different types of flow fields and structures, i.e. jets, abutments and bridge piers. As many scour problems are still not fully understood, attention is paid to the validity ranges and limitations of the formulas, as well as to the accuracy of the scour predictions. This

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Information can also be used to carry out a risk assessment using a safety philosophy based on a probabilistic analysis or an approach with a safety factor. Moreover, the information on the strength of soils is extended and aspects are addressed such as scour due to shear failures or flow slides, that can progressively damage the bed protection which might lead to the failure of hydraulic structures. This updated Scour Manual presents scour prediction methods and deals with practically related scour problems. Consultants and contractors were invited to provide case studies of realized projects, including the methods that were followed. These case studies will help with grasping the concept of scour by the flow of water. This manual provides the engineer with the latest

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Knowledge and with case studies that show how to apply the formulas and their limitations.

This book provides 1-page short biographies of scientists and engineers having worked in the areas of hydraulic engineering and fluid dynamics in the USA. On each page, a notable individual is highlighted by: (1) Exact dates and locations of birth and death; (2) Educational and professional details, including also awards received; (3) Rea

This book presents select proceedings of the national conference on Advanced Modelling and Innovations in Water Resources Engineering (AMIWRE 2021) and examines numerous advancements in the field of water resources engineering and

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management towards sustainable development of environment. The topics covered includes river basin planning and development, reservoir planning and management, integrated water management, reservoir sedimentation, soil erosion and sedimentation, agricultural technologies for climate change mitigation, uncertainty analysis in hydrology, water distribution networks, floods and droughts management, water quality modelling, environmental modelling, environmental impact assessment, urban water management, open channel hydraulics, hydraulic structures, groundwater hydraulics, groundwater flow and contaminant transport modelling, computational fluid dynamics, ocean engineering, HEC-RAC, SWAT, MIKE, MODFLOW



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models applications, numerical analysis in water resources engineering, climate change impacts on hydrology, optimization techniques in water resources, soft computing techniques and applications in water resources and remote sensing / geospatial techniques in water resources. This book will be beneficial for water sectors development mainly agricultural production, reservoir operations, improvement of water quality, flood and drought controls, designing hydraulic structures and geospatial analysis. This book will be a valuable reference for faculties, research scholars, students, design engineers, industrialists, R & D personnel and practitioners working in water resources engineering and its related fields.

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