

CHANSON, H. (1999). "The Hydraulics of Open Channel Flow : An Introduction." *Butterworth-Heinemann*, 1st edition, London, UK, 512 pages (ISBN 0 340 74067 1).

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<sup>1</sup>Work prepared and published posthumously by BAZIN (1865a,b).

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#### Notes

IDEL'CIK or IDELCHIK refer to the same Russian author.

DARCY and BAZIN (1865) was published posthumously by BAZIN (1865a,b).

CHANSON, H. (1999). "The Hydraulics of Open Channel Flow : An Introduction." *Butterworth-Heinemann*, 1st edition, London, UK, 512 pages (ISBN 0 340 74067 1).

### ADDITIONAL BIBLIOGRAPHY

The following paragraphs include several materials of pedagogical value. They may assist the reader (student and lecturer) in gaining a good feel for open channel hydraulics and to visualise practical applications of the lecture material.

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#### Bibliography : Audio-visual material

APELT, C.J. (1994). "The Minimum Energy Loss Culvert." *Videocassette VHS colour*, Dept. of Civil Engineering, University of Queensland, Australia, 18 Minutes.

Comments : Utilised to reduce flooding of stormwater plains drains, the benefits of minimum energy loss culverts, designed by Gordon MACKAY and Colin APELT, are illustrated by comparison with the flow capacity of the standard culvert. It is a very good teaching tool to introduce the concept of specific energy and the application to culvert design.

LERNER, B. (1994). "After the Flood." *Videocassette VHS colour*, SBS-The Cutting Edge, 48 Minutes.

Comments : In order to control flooding of the river Brahmaputra, Bangladesh, water engineers propose to change the width and course of the river. Along the Mississippi, USA, similar water engineering is the alleged cause of the Mississippi's flooding in 1993. Archival film helps to illustrate some of the problems to be overcome. Produced by Bettina LERNER. Very good documentary dealing with practical applications of open channel hydraulics, sediment transport, catchment hydrology and environmental impact of hydraulic structures.

"Mississippi Floods 1993." *Videocassette VHS colour*, Australian Channel News, 4 Minutes.

Comments : News footage of the Mississippi flood in 1993. Footage from Australian News Channels 7, 9, 10, SBS.

St Anthony's Falls Hydraulic Laboratory (1947). "Some Phenomena of Open Channel Flow." *Videocassette NTSC B&W*, SAF Hyd. Lab., Minneapolis MN, USA, 33 Minutes.

CHANSON, H. (1999). "The Hydraulics of Open Channel Flow : An Introduction." *Butterworth-Heinemann*, 1st edition, London, UK, 512 pages (ISBN 0 340 74067 1).

Comments : In this program, open channel flow lecture material is demonstrated. It looks at : supercritical and subcritical flow, hydraulic jumps, hydraulic drops, specific energy curve, pressure momentum curve, critical depth, travel of surface waves in channels flowing at critical, subcritical and supercritical velocities, uphill flow, abrupt gate closure, movable bed channels, and more.

US Bureau of Reclamation (1988?). "Challenge at Glen Canyon Dam." *Videocassette VHS colour*, US Dept. of Interior, Denver, Colorado, USA, 27 Minutes.

Comments : This program is divided into two parts. The first part examines flood waters of the Colorado River system. The second part describes the damage caused to the Glen Canyon dam spillways following the excessive amount of water which flowed into Lake Powell due to heavy snow falls late in the season. The program then goes on to examine the method used to repair the damage after the flood has passed. It is a superb educational movie for both civil, environmental and hydraulic engineering students. It is quite entertaining.

US National Committee for Fluid Mechanics (1967). "The Hydraulic Surge Wave." *Videocassette VHS B&W*, Education Development Center, USA, 4 Minutes.

Comments : Film of experiments illustrating the hydraulic surge wave, the hydraulic jump and the analogy between hydraulic jump and surge.