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## **HYDRAULIC DESIGN OF STEPPED SPILLWAYS**

A stepped spillway is a spillway with

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steps on the spillway chute to assist in the dissipation of the kinetic energy of the descending water. This eliminates or reduces the need for an additional energy dissipator, such as a body of water, at the end of the spillway downstream.

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The Hydraulics of Stepped Chutes and  
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## **Spillways - Hubert ...**

Numerous research contributions have been made on the hydraulic properties for steep, stepped chutes. Stepped chutes applied to more moderate slopes like those for aging embankment dams are a ...



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## **Hydraulics of stepped chutes: the transition flow: Journal ...**

her career at Reclamation working on hydraulic issues related to stepped spillway performance and design and was an internationally-known and respected researcher in this field. I came into the subject at the end of my

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career and have been most interested in air entrainment and possibility of cavitation damage on stepped chutes.

## **Hydraulics of Stepped Chutes and Spillways: Hubert Chanson ...**

Stepped channel designs have been used for more than 3,500 years. A

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significant number of dams were built with overflow stepped spillways during the nineteenth and early twentieth centuries, before the design technique became outdated with the progresses in hydraulic jump stilling basin design.

## **Hydraulics of Stepped Chutes and**

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**Spillways - CRC Press Book**

Hydraulics of Stepped Chutes and Spillways is a useful contribution to the field of hydraulics. The book may be used as a text for an undergraduate (elective) or a graduate course in the hydraulics of stepped chutes. The book will be useful for engineers

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working in the area of design and research.

## **Hydraulics of Stepped Chutes and Spillways**

HYDRAULIC DESIGN OF STEPPED  
SPILL WAYS ... 1.0 ft and  $h = 2.0$  ft.  
Additional testing of the smooth

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surface chute with the steps removed was conducted for comparison purposes. ... analysis were then used to propose a design procedure for estimating the hydraulic characteristics of stepped spillway flow using typical required information. III .

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## **Hydraulics of Stepped Chutes and Spillways - Hubert ...**

He wrote three books (CHANSON 1995a, 1997a, 1999), gave several short courses on the hydraulic design of chutes and spillways (incl. stepped channels) and he has introduced the stepped spillway design in

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undergraduate and postgraduate subjects.

## **Stepped spillway - Wikipedia**

Stepped spillway flows may behave as a succession of free-falling nappes at low flows and as a skimming flow at large discharges. However there is a



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range of intermediate flow rates characterised by a chaotic flow motion associated with intense splashing: i.e. the transition flow regime.

## **The Hydraulics of Stepped Chutes and Spillways**

Stepped channel design has been in

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use for more than 3,500 years. Recent advances in technology have triggered a regained interest in stepped design, although much expertise has been lost in the last 80 years. The steps significantly increase the rate of energy dissipation taking place along the chute and reduce the size of the

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required downstream energy  
dissipation basin.

## **Hydraulics of stepped chutes: The transition flow: Journal ...**

Stepped channel designs have been  
used for more than 3,500 years. A  
significant number of dams were built

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with overflow stepped spillways during the nineteenth and early twentieth centuries, before the design technique became outdated with the progresses in hydraulic jump stilling basin design. Recent advances in technology (e.g. RCC, polymer-coated gabion wire) have triggered a regain in ...

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## **Current expertise and experience on stepped chute flows**

(2007). Hydraulics of stepped chutes:  
the transition flow. Journal of Hydraulic  
Research: Vol. 45, No. 1, pp. 140-141.

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Research on stepped spillway hydraulics has been active between 1980 and 2000. For the period 1985-2000, the international database Science Citation Index® lists over sixteen journal papers and twenty-six discussions and closures on stepped

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chute hydraulics, all but two published between 1990 and 2000.

## **Hydraulics of Stepped Chutes: the Transition Flow**

"This book fulfills the need for presenting the state of the art in the stepped chute hydraulics. It helps

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students as well as practicing engineers and researchers get a feel for various aspects of the stepped chute analysis.

## **The hydraulics of stepped chutes and spillways (Book, 2002 ...**

Stepped channels and spillways have



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been used for over 3,000 years.

Despite being superseded by more modern engineering techniques such as hydraulic jumps in the mid twentieth century, since around 1985 interest in stepped spillways and chutes has been renewed, partly due to the use of new construction materials (e.g. Roller-

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compacted concrete, gabions) and  
design techniques (e.g. embankment

...

## **Guidelines for Hydraulic Design of Stepped Spillways**

The Transition Flow Regime -- 5.

Hydraulics of Skimming Flows -- 6.

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Mass Transfer on Stepped Cascades  
Aeration, De-Aeration, Oxygenation,  
Stripping, Denitrification -- 7. Design of  
Stepped Channels, Chutes and  
Spillways -- 8. Accidents and Failures:  
Learning from Experience -- 9. Wave  
Phenomena and Instabilities in  
Stepped Chute Flows -- 10.

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## **The Hydraulics Of Stepped Chutes**

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qualifying offers. Stepped channel  
designs have been used for more than

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3, 500 years. A significant number of dams were built with overflow stepped spillways during the nineteenth and early twentieth centuries

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Spillways - CRC Press Book Stepped channel designs have been used for more than 3,500 years. A significant number of dams were built with overflow stepped spillways during the nineteenth and early twentieth centuries, before the design technique became outdated with the progresses

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in hydraulic jump stilling ...

## **Spillway - Wikipedia**

Part 1 History of stepped channels and weirs: history of stepped chutes-- ancient irrigation canal systems-- discussion. Part 2 Nappe flow regime: hydraulic characteristics of Nappe

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flows-- energy dissipation-- air  
entrainment in Nappe flow regime--  
design of chutes with Nappe flow  
regime-- example of application.

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