

The Hydraulics Of Stepped Chutes And Spillways

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stepped channel design has been in 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 required downstream energy dissipation basin stepped cascades are also used in water treatment plants to enhance the air water transfer of atmospheric gases e g oxygen nitrogen and of volatile organic components voc results from more than forty five laboratory studies and four prototype investigations were re analysed and compared the book provides a new understanding of stepped channel hydraulics and is aimed both at researchers and professionals

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with overflow stepped spillways during the nineteenth and early twentieth centuries before the design technique became outdated with the progresses in hydraulic jump stilling basin design recent advances in technology e g rcc polymer coated gabion wire have triggered a regain in interest for the stepped design although much expertise had been lost in the last eighty years the steps increase significantly the rate of energy dissipation taking place along the chute and reduce the size of the required downstream energy dissipation basin stepped cascades are used also in water treatment plants to enhance the air water transfer of atmospheric gases e g oxygen nitrogen and of volatile organic components voc this book presents the state of the art in stepped channel hydraulics it is based upon the research expertise of the writer his professional experience as an expert consultant and his experience in teaching stepped spillway hydraulics to undergraduate students postgraduate research students and professionals since 1982 results from more than forty five laboratory studies and four prototype investigations were reanalyzed and compared enabling the book to provide a new understanding of stepped channel hydraulics aimed at both the research and professional communities

stepped channels and spillways have been used for more than 2 500 years but recently new construction materials have renewed interest in stepped chutes the steps significantly increase the rate of energy dissipation taking place on the spillway face and reduce the size of the required downstream energy dissipation basin stepped cascades are also used in water treatment plants to enhance the air water transfer of atmospheric gases and of volatile organic components this book presents new material on the hydraulic characteristics of stepped chute flows two different flow regimes can occur nappe flow regime for small discharges and flat channel slopes and skimming flow regime the hydraulics of each flow regime are described the book also covers the effects of flow aeration and air bubble entrainment as well as the process of air water gas transfer taking place above the stepped chute practical examples of hydraulic design and a critical review of the risks of accidents and failures with stepped channels makes this book an essential reference tool for professional engineers postgraduates and researchers in the field

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