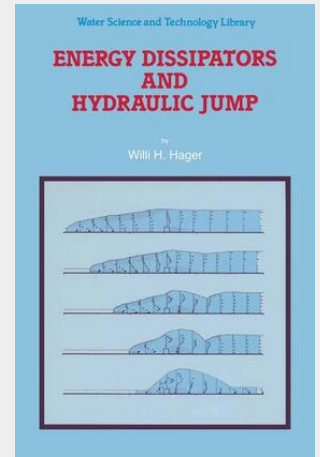


Hager

## Energy Dissipators and Hydraulic Jump

Stilling basins utilizing a hydraulic jump for energy dissipation are widely used in hydraulic engineering. Da Vinci was the first to describe the hydraulic jump, and Bidone conducted classical experiments about 170 years ago. Stilling basins were developed in the thirties with significant design improvements being made during the last sixty years. Although well-accepted guidelines for a successful design are presently available, the information for the design of such dissipators is not yet compiled in book form. This book provides state-of-the-art information on hydraulic jumps and associated stilling basins. A large number of papers on the topics are reviewed. The present trends of the art of designing a stilling basin are discussed and ideas for future research are outlined. Design criteria and recommendations are frequently given. However, this should not be considered as a ready-to-use guideline since the design of an effective stilling basin is much more complex than following general design steps. The book is divided into two parts. Part 1 on hydraulic jumps is comprised of chapters 2 to 5. Part 2 consisting of chapters 6 to 14 deals with various hydraulic structures used to dissipate energy. The lists of notation and references are provided in each part separately although the same notation is used throughout.



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