

CHAPTER 11 ENERGY DISSIPATORS

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Design Dissipator Energy Manual

Chao Zhang



Design Dissipator Energy Manual:

Energy Dissipators W.H. Hager,D.L. Vischer,2018-02-06 Energy dissipators are an important element of hydraulic structures as transition between the highly explosive high velocity flow and the sensitive tailwater This volume examines energy dissipators mainly in connection with dam structures and provides a review of design methods It includes topics such as hydraulic jump stilling basins ski jumps and plunge pools It also introduces a general account of various methods of dissipation as well as the governing flow mechanisms *Technical Manual: Outlet Works Energy Dissipators* Federal Emergency Management Agency,2015-03-06 Water emerging from an outlet works conduit typically requires dissipation of excess kinetic energy to prevent downstream channel erosion This flow often discharges at a high velocity and must be directed away from the toe of the dam An energy dissipator is used to retard the fast moving water by creating turbulence and developing a loss through change in the water s momentum This prevents damage to the channel downstream from the structure The design of an energy dissipating structure can vary from simple to complex The selection of the proper structure must consider The energy content and unit discharge of the flow entering the dissipator The type of valve or gate used to regulate discharge The number of conduits involved The duration and frequency of flow The compatibility with the conduit or tunnel from which flow is emerging The amount of energy that must be dissipated to control downstream channel erosion Tailwater conditions Alignment and location with respect to the toe of the dam and other features Economic concerns The goal of this manual is to provide a nationally recognized source to promote greater consistency between similar project designs facilitate more effective and consistent review of proposed designs and aid in the design of safer more reliable facilities An outlet works is a combination of structures and equipment required for the safe operation and control of water released from a reservoir to serve various purposes i e regulating stream flow and quality releasing floodwater providing irrigation municipal and or industrial water The outlet works typically consists of an intake structure conduit control house gate chamber regulating valve s or gates s and an energy dissipation structure This manual will focus on the methods by which energy resulting from the release of water through the outlet works is dissipated for safe discharge downstream The theory involved with energy dissipation can best be explained with the hydraulic jump Flowing water emerging from an outlet works can be in one of two states subcritical or supercritical **The Hydraulic Design of Energy Dissipators for Culverts and Channels** United States. Federal Highway Administration,1975 *Energy Dissipators* W.H. Hager,D.L. Vischer,1995-01-01 Energy dissipators are an important element of hydraulic structures as transition between the highly explosive high velocity flow and the sensitive tailwater This volume examines energy dissipators mainly in connection with dam structures and provides a review of design methods It includes topics such as hydraulic jump stilling basins ski jumps and plunge pools It also introduces a general account of various methods of dissipation as well as the governing flow mechanisms **Hydraulic Design of Energy Dissipators for Culverts and Channels** ,1983 *Energy Dissipators* Willi

H. Hager,2006 Highway Drainage ,1984 **Energy Dissipation in Hydraulic Structures** Hubert Chanson,2015-05-12

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