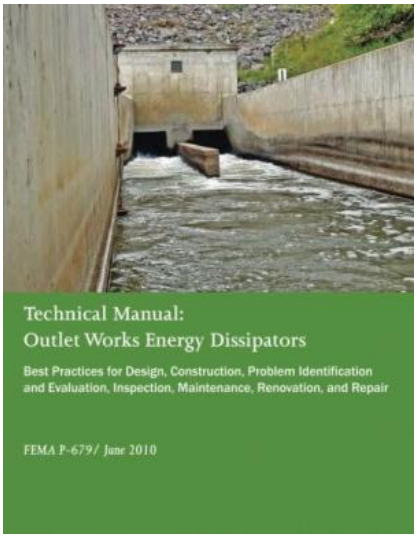

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Technical Manual: Outlet Works Energy Dissipators: Best Practices for Design, Construction, Problem Identification and Evaluation, Inspection, Maintenance, Renovation, and Repair

By Federal Emergency Management Agency

Createspace, United States, 2015. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.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...

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