



Hydraulic Design of Labyrinth Weirs

Henry T. Falvey

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This comprehensive handbook on the hydraulic design of labyrinth spillways - from theory to current practice - presents a state-of-the-art method for the effective design of labyrinth weirs. The book first provides a fundamental understanding of the theory of labyrinth weirs and continues with detailed sections on significant factors that affect the discharge characteristics of labyrinth weirs such as crest shape, weir height, and sidewall angle. The most common design curves are discussed, and from these a recommendation is developed for only one design curve to be used in future designs. But because site conditions often vary so much from the idealized conditions described in this book, a section on site-specific modeling criteria is included for making accurate predictions of prototype performance. In its review of past studies, the book closely examines many long held concepts, especially concerning the idea of interference, nappe oscillation, and the definition of which head to use in design computations, and revises them in an effort to advance current thinking based on the latest research. With its review of theoretical concepts and its straightforward presentation of the practical aspects of design, both practicing engineers and researchers will find this book to be a "must-have" reference for the hydraulic design of labyrinth weirs. The chapters include: Analytic Development; Nappe Interference; Crest Shapes; Design Curves; Downstream Chute; Nappe Oscillation; Design; Sedimentation and Ice; Aeration; Special Cases; and Model Studies. To help guide the designer, an appendix provides a representative sample of the prototype installations and their dimensions that have been constructed worldwide.

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