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Study of Preliminary Design Methods of Arch Dams

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Abstract

This study is a compilation of data on arch dams, and it is planned to provide design information needed to consider the shape of arch dam to be used. All equations used in developing the figures and tables are shown along.

The intent of the project is to present guidelines to establish criteria and procedures to give preliminary design of arch dam's profile and loads to be applied on the arch dam's body. The objective is to design arch dams according to recent guidelines using all the necessary design aids. All of these design aids are presently published in engineering textbooks or represent the computer analysis of involved equations. Illustrative example problems are presented in chapter four.