



Geotechnical Engineering of Dams

Robin Fell, Patrick MacGregor, David Stapledon, Graeme Bell

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Geotechnical Engineering of Dams provides a comprehensive text on the geotechnical and geological aspects of the investigations for and the design and construction of new dams. In addition, much attention is paid to the review and assessment of existing dams. The main emphasis of this work is on embankment dams, but much of the text, particularly those parts related to geology, can be used for concrete gravity and arch dams. All phases of investigation, design and construction of a dam are covered. Detailed descriptions are given from the initial site assessment and site investigation program through to the preliminary and detailed design phases and, ultimately, the construction phase. The assessment of existing dams, including the assessment of the likelihood of internal erosion and piping analysis of risks posed by those dams, is also presented. This valuable source on dam engineering incorporates the collective experience of the authors, each of whom has more than thirty-five years experience in the subject area. Design methods are presented in combination with their theoretical basis, to enable the reader to develop a proper understanding of the possibilities and limitations of a method. For its practical, well-founded approach, this work can serve as a useful guide for professional dam engineers and engineering geologists and as a textbook for university students.

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