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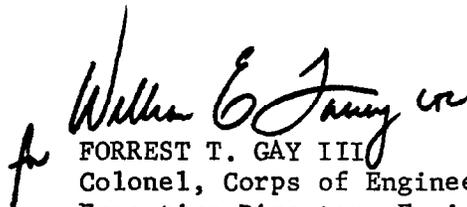
Engineer Manual
No. 1110-2-2907

15 February 1980

Engineering and Design
ROCK REINFORCEMENT

1. Purpose. The purpose of this manual is to outline techniques and procedures of rock reinforcement for underground and surface structures in civil engineering works. Design procedures and examples of successful installations are presented for guidance in the design and construction of rock reinforcement systems.
2. Applicability. This manual applies to all field operating agencies having responsibility for the design of Civil Works projects.
3. General. The design of reinforced rock structures follows the same basic steps used in the design of other structures. The primary emphasis should be to guard against the most probable modes of deformation that may lead to collapse. Design procedures outlined in this manual are not restricted to the reinforcement elements only but also considers the overall design of the rock structure.

FOR THE CHIEF OF ENGINEERS:


FORREST T. GAY III
Colonel, Corps of Engineers
Executive Director, Engineer Staff

Initial Edition