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## Bolt Risk

By Wood, Ann

Leapfrog Press, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Series foreword. Preface. Introduction : References. Theories of frost action and de-icer salt scaling mechanisms. Theories of frost action. De-icer salt scaling mechanisms. References. Basic concepts related to frost resistance . Deterioration due to frost action. Ice formation in hardened cement pastes and concretes. Required air-void characteristics. Other hypotheses concerning frost action. Special tests. Frost resistance numbers. References. Laboratory tests . Concrete tests: Critical dilation test; resistance to rapid freezing and thawing; Surface scaling resistance; Other test methods; Significance of laboratory tests as regards to the field performance of concrete. Tests of aggregates: Petrographic examination; Sulfate soundness test; Critical dilation procedures; Other tests. Tests on admixtures: Air-entraining admixtures; Water-reducing, retarding, and accelerating admixtures; Fly ash or natural pozzolans. Determination of air content in fresh concrete: Pressure method (ASTM C 231); Volumetric method (ASTM C 173); Gravimetric method (ASTM C 138). Microscopic determination of air content and other characteristics of the air-void system: Fundamentals; Sampling and preparation of concrete specimens. Test procedure and computation of the air-void characteristics; Precision of measurement; Influence of large air voids on the spacing factor; Determination of the air-void...



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