



## Early in Soft Ground Tunnel Support Technology: steel frame sprayed network lock foot bolt combined structure(Chinese Edition)

By CHEN JIAN XUN

paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: November 2011 Pages: 117 Language: Chinese in Publisher: Science Press spray anchor support the promotion system anchor in a supporting role in Soft Ground Tunnel. has been hotly debated tunnel engineering community. Soft ground tunnel initial support: steel frame sprayed network locking pin bolt combined structure from theory to practice. the law of tunnel deformation system bolt supporting effect and mechanism of loess tunnel. and the steel frame supporting conditions Bolt effect of soft rock tunnel system under study. Combined supporting proposed the weak strata tunnel initial support should be adopted as the main steel-framed rigid support system. frame + shotcrete + steel mesh + locking pin bolt (tube) (referred to as the steel frame sprayed network locking pin bolt) retaining structure. The proposed fast dig fast support. fast closed. the secondary lining invert and sidewall foundation followed by the secondary lining timely Shi as soft ground tunnel construction principle. The research has been extended to the engineering practice and project cost savings of several hundred million dollars for the country. very significant economic and social benefits....



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