



# TBM Tunnelling in Jointed and Faulted Rock

*Nick R. Barton*

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## **TBM Tunnelling in Jointed and Faulted Rock** Nick R. Barton

This practical guide describes the stage-by-stage development of a method for predicting the penetration rate (PR) and the advance rate (AR) for tunnel boring machines based on an expanded version of the  $Q$ -value,  $Q_{TBM}$ . The author analyzes 145 TBM tunnels that total 1,000km in length. He then develops simple formulae to estimate PR and AR from the  $Q_{TBM}$  value and to back-calculate  $Q_{TBM}$  from performance data. The book quantitatively explains actual advance rates as high as five m/hr for one day or as low as 0.005 m/hr for several months. It also covers logging methods, empirical TBM tunnel support design, and numerical verification of support.

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