

Specific hazards associated with the construction of tunnels in metropolitan areas exist, including poor ground conditions, water tables higher than the level of tunnels, and subsidence leading to damage to the existing structures on the surface. This book describes the application of technologies for achieving the stability of tunnels and for minimizing surface settlement. Important topics discussed include accurate characterization of the ground, rigorous assessment and management of risk from design to maintenance, the correct choice of a tunnel boring machine, a plan for the advancement of the tunnel, specific excavation procedures, and real-time monitoring of excavation parameters. This wholly revised and expanded 2nd edition includes various important updates, particularly with respect to aspects of mechanized technology updated by the industry and to experience gained from some new case-histories. It also includes new sections on contingency plans and on the methodology for implementing a geological, hydrogeological and geotechnical model which lies at the basis of every tunnelling design. The work will be of interest to practising engineers, designers, consultants and students in mining, underground, tunnelling, transportation and construction engineering, as well as to foundation and geological engineers, urban planners/developers and architects.

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