1. Record Nr. UNISA990001751170203316

Autore MADDEN, Lionel

Titolo How to find out about the Victorian Period : a guide to sources of

information / Lionel Madden

Pubbl/distr/stampa Oxford; New York: Pergamon Press, 1970

Descrizione fisica XI, 174 p.; 20 cm

Collocazione VII.3.C. 221(II i C 868)

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Record Nr. UNINA9910878052803321

Autore Yao Zhanhu

Titolo Key Construction Techniques for Large Diameter Shield Tunnel Crossing

Circular Ventilation Shaft

Pubbl/distr/stampa Singapore : , : Springer Singapore Pte. Limited, , 2024

©2024

ISBN 981-9738-93-8

Edizione [1st ed.]

Descrizione fisica 1 online resource (263 pages)

Collana Key Technologies for Tunnel Construction under Complex Geological

and Environmental Conditions Series

Altri autori (Persone) ZhangYazhou

LiHui

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Nota di contenuto Intro -- Preface -- Contents -- 1 Introduction -- 1.1 Current

Development Status of Long Shield Tunnels -- 1.1.1 The Origin of Shield Tunnels and Their Development Abroad -- 1.1.2 The Development of Shield Tunnels in China -- 1.1.3 The Development Trend of Long Shield Tunnels -- 1.2 Development Status of Shield

Tunnel Section Air Shaft and Station Passing Construction Methods --1.2.1 Development Status of Interval Air Shaft Construction -- 1.2.2 Development Status of Construction Methods for Interval Air Shaft Passing Through Stations -- 1.3 Current Application Status of Ultradeep Circular Foundation Pits at Home and Abroad -- 1.3.1 Development Status of Circular Deep Foundation Pits -- 1.3.2 Characteristics and Development Trends of Circular Foundation Pit Technology -- 1.4 Based on the Background of the Engineering Project and the Main Risks of Large-Diameter Shield Tunnel Crossing Circular Air Shafts -- 1.4.1 Based on the Background of the Engineering Project -- 1.4.2 Main Risks of Large-Diameter Shield Tunnel Crossing Circular Air Shafts -- References -- 2 Construction Technology of Retaining System for Ultra-deep Circular Air Shaft Foundation Pit in Sensitive Environment Adjacent to River -- 2.1 Key Technical Issues -- 2.1.1 High Risk of Foundation Pit Dewatering in Sensitive Environments Near the River -- 2.1.2 Difficulty in Reinforcement Construction of Ultradeep Rotary Jet Grouting Piles -- 2.1.3 Difficulty in Controlling the Construction Quality of Connecting Walls in Ultra-deep Circular Foundation Pits -- 2.2 Construction Technology of "Pumping Reinjection" for Ultra-deep Circular Air Well in Sensitive Environment of Linjiang -- 2.2.1 Theoretical Study on "Pumping and Reinjection" of Foundation Pit -- 2.2.2 Construction Technology of "Pumping and Reinjection" for Foundation Pits.

2.2.3 Quality Control of "Pumping and Reinjection" Construction in Foundation Pits -- 2.3 High-Pressure Rotary Jet Grouting Reinforcement Construction Technology for Ultra-deep Circular Air Shaft in Sensitive Environment of Linjiang -- 2.3.1 Theoretical Study on Grouting Reinforcement -- 2.3.2 On-Site Pile Testing -- 2.3.3 High-Pressure Rotary Jet Grouting Reinforcement Construction Technology -- 2.3.4 Quality Control of High-Pressure Rotary Jet Grouting Reinforcement Construction -- 2.3.5 Quality Inspection of High-Pressure Rotary Jet Grouting Reinforcement Construction -- 2.4 Construction Technology of Cutting Ground Wall for Ultra-deep Circular Air Shaft in Sensitive Environment of Linjiang -- 2.4.1 Feasibility Study on Machinable Ground Wall Connection -- 2.4.2 Slot Width Connection Technology -- 2.4.3 Construction Technology of Machinable Ground Wall -- References -- 3 Underwater Excavation and Underwater Mass Concrete Sealing Construction Technology for Circular Air Shaft -- 3.1 Key Technical Issues -- 3.1.1 Difficulty in Underwater Excavation of Ultra-deep Circular Air Shafts -- 3.1.2 High Technical Requirements for Underwater Concrete Bottom Sealing of Ultra-deep Circular Air Shafts -- 3.2 General Idea -- 3.2.1 Underwater Excavation of Ultradeep Circular Air Shaft -- 3.2.2 Underwater Pouring of Large-Volume Concrete -- 3.3 Process Flow and Construction Methods -- 3.3.1 Underwater Excavation Construction Technology -- 3.3.2 Safety Assurance Measures for Underwater Excavation -- 3.3.3 Construction Technology of Underwater Mass Concrete Bottom Sealing -- 3.3.4 Implementation Effect of Underwater Excavation and Mass Concrete Bottom Sealing -- References -- 4 Key Technologies for Continuous Crossing of Air Shaft with Large Diameter Shield Tunnels -- 4.1 Key Technical Issues -- 4.2 Adaptability Improvement Technology for Shield Tunneling Machines.

4.2.1 Introduction to the Shield Tunneling Machine for Weisan Road Crossing the River Channel -- 4.2.2 Configuration of Cutting Tools for the Front Cutterhead of Shield Tunneling Machine Passing Through Meizizhou Air Shaft -- 4.2.3 Optimization of Cutting Tools Before Shield Tunneling Machine Passes Through Meizizhou Air Shaft -- 4.3 Comparison and Selection of Construction Schemes for Shield

Tunneling Machine Passing Through Meizizhou Air Shaft -- 4.3.1 Construction Plan I for Shield Machine Crossing Meizizhou Air Shaft --4.3.2 Construction Plan II for Shield Machine Crossing Meizizhou Air Shaft -- 4.3.3 Comparison and Analysis of Construction Schemes for Shield Machine Crossing Meizizhou Air Shaft -- 4.4 Optimization Analysis of the Strength of Plain Concrete During Shield Tunneling --4.5 Construction Technology of Shield Tunneling Machine Passing Through Meizizhou Air Shaft -- 4.5.1 Shield Tunneling Through Meizizhou Air Shaft Excavation Process -- 4.5.2 Key Control Technologies for Shield Tunneling Through Meizizhou Air Shaft --4.5.3 Backfilling Chiseling and Pipe Segment Removal -- 4.6 Construction Quality and Safety Assurance Measures -- 4.6.1 Quality Assurance Measures for Shield Tunneling -- 4.6.2 Safety Measures for Shield Tunneling -- References -- 5 Stability Control Technology for Meizizhou Air Shaft During Process Conversion -- 5.1 Key Technical Issues -- 5.2 Numerical Simulation of the Process Transformation of Meizizhou Air Shaft -- 5.2.1 Overview of Meizizhou Air Well Project -- 5.2.2 Calculation Using Parameters -- 5.2.3 Construction Analysis Process -- 5.2.4 Calculation Results of Force on the Air Shaft Structure -- 5.3 Air Shaft Stability Control Technology -- References -- 6 On-Site Monitoring and Data Analysis -- 6.1 Monitoring Point Distribution Settings -- 6.2 Monitoring Items -- 6.2.1 Deformation of the Enclosure Structure.

6.2.2 Internal Force of the Enclosure Structure -- 6.3 Monitoring Requirements -- 6.3.1 Monitoring Frequency Requirements -- 6.3.2 Monitoring and Alarm Requirements -- 6.4 Analysis of Monitoring Results -- 6.4.1 Deformation Analysis of Enclosure Structure -- 6.4.2 Stress Analysis of Enclosure Structure -- 6.5 Comparative Analysis of Monitoring and Numerical Calculation Results -- 6.6 Monitoring Conclusion -- Reference -- 7 Summary and Outlook.