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Nota di contenuto

Front Cover; Engineering Rock Mechanics: Part 2: Illustrative Worked Examples; Copyright Page; Contents; Preface; Units and Symbols; Part A: Illustrative worked examples - Questions and answers; Chapter 1. Introduction; 1.1 The subject of engineering rock mechanics; 1.2 Questions and answers: introduction; 1.3 Additional points; Chapter 2. Geological setting; 2.1 Rock masses; 2.2 Questions and answers: geological setting; 2.3 Additional points; Chapter 3. Stress; 3.1 Understanding stress; 3.2 Questions and answers: stress; 3.3 Additional points; Chapter 4. In situ rock stress 4.1 The nature of in situ rock stress 4.2 Questions and answers: in situ rock stress; 4.3 Additional points; Chapter 5. Strain and the theory of elasticity; 5.1 Stress and strain are both tensor quantities; 5.2 Questions and answers: strain and the theory of elasticity; 5.3 Additional points; Chapter 6. Intact rock: deformability, strength and failure; 6.1 Intact rock; 6.2 Questions and answers: intact rock; 6.3 Additional points; Chapter 7. Fractures and hemispherical projection; 7.1 Natural, pre-existing fractures; 7.2 Questions and answers: fractures and hemispherical projection 7.3 Additional points Chapter 8. Rock masses: deformability, strength and failure; 8.1 The nature of rock masses; 8.2 Questions and answers: rock masses; 8.3 Additional points; Chapter 9. Permeability; 9.1 Permeability of intact rock and rock masses; 9.2 Question and answers: permeability; 9.3 Additional points; Chapter 10. Anisotropy and inhomogeneity; 10.1 Rock masses: order and disorder; 10.2 Questions and answers: anisotropy and inhomogeneity; 10.3 Additional points; Chapter 11. Testing techniques; 11.1 Rock properties; 11.2 Questions and answers: testing techniques; 11.3 Additional points Chapter 12. Rock mass classification 12.1 Rock mass parameters and classification schemes; 12.2 Questions and answers: rock mass classification; 12.3 Additional points; Chapter 13. Rock dynamics and time dependency; 13.1 Strain rates; 13.2 Questions and answers: rock dynamics and time dependency; 13.3 Additional points; Chapter 14. Rock mechanics interactions and rock engineering systems; 14.1 Interactions; 14.2 Questions and answers: rock mechanics interactions and rock engineering systems; 14.3 Additional points; Chapter 15. Excavation principles; 15.1 Rock excavation 15.2 Questions and answers: excavation principles 15.3 Additional points; Chapter 16. Rock reinforcement and rock support; 16.1 The stabilization system; 16.2 Questions and answers: rock reinforcement and rock support; 16.3 Additional points; Chapter 17. Foundation and slope instability mechanisms; 17.1 Near-surface instability; 17.2 Question and answers: foundation and slope instability mechanisms; 17.3 Additional points; Chapter 18. Design of surface excavations; 18.1 The project objective; 18.2 Questions and answers: design of surface excavations; 18.3 Additional points Chapter 19. Underground excavation instability mechanisms

Sommario/riassunto

Engineering Rock Mechanics Part II: Illustrative Worked Examples can be used as an independent book or alternatively it complements an earlier publication called Engineering Rock Mechanics: An Introduction to the Principles by the same authors. It contains illustrative worked examples of engineering rock mechanics in action as the subject applies to civil, mining, petroleum and environmental engineering. The book covers the necessary understanding and the key techniques supporting the rock engineering design of structural foundations, dams, rock slopes, wellbores, tunnels, caverns, hydroel