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Autore	STEWART, J. A.
Titolo	Manual of colloquial Burmese / by J.A. Stewart
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Soggetti	Lingua birmana - Grammatiche
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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2. Record Nr. UNINA9911007095303321

Autore	Harrison John P
Titolo	ENGINEERING ROCK MECHANICS [[electronic resource]] : AN INTRODUCTION TO THE PRINCIPLES
Pubbl/distr/stampa	Burlington, : Elsevier Science, 2000
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Altri autori (Persone)	HudsonJohn A
Disciplina	624.15132
Soggetti	Rock mechanics Civil & Environmental Engineering Engineering & Applied Sciences Civil Engineering
Lingua di pubblicazione	Inglese
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Nota di contenuto	Front Cover; Engineering rock mechanics: an introduction to the principles; Copyright Page; Contents; Preface; Chapter 1. Introduction; 1.1 The subject of rock mechanics; 1.2 Content of this book; Chapter 2. Geological setting; 2.1 Rock as an engineering material; 2.2 Natural rock environments; 2.3 The influence of geological factors on rocks

and rock masses; Chapter 3. Stress; 3.1 Why study stress in rock mechanics and rock engineering?; 3.2 The difference between a scalar, a vector and a tensor; 3.3 Normal stress components and shear stress components; 3.4 Stress as a point property
3.5 The stress components on a small cube within the rock3.6 The symmetry of the stress matrix; 3.7 The state of stress at a point has six independent components; 3.8 The principal stresses; 3.9 All unsupported excavation surfaces are principal stress planes; 3.10 Concluding remarks; Chapter 4. In situ stress; 4.1 Why determine in situ stress?; 4.2 Presentation of in situ stress state data; 4.3 Methods of stress determination; 4.4 Statistical analysis of stress state data; 4.5 The representative elemental volume for stress
4.6 Predictions of natural in situ stress states based on elasticity theory4.7 Collated worldwide in situ stress data; 4.8 Reasons for high horizontal stresses; 4.9 Effect of discontinuities on the proximate state of stress; 4.10 Glossary of terms related to stress states in rock masses; Chapter 5. Strain; 5.1 Finite strain; 5.2 Examples of homogeneous finite strain; 5.3 Infinitesimal strain; 5.4 The strain tensor; 5.5 The elastic compliance matrix; 5.6 Implications for in situ stress; Chapter 6. Intact rock; 6.1 The background to intact rock testing 6.2 The complete stress-strain curve in uniaxial compression6.3 Soft, stiff and servo-controlled testing machines; 6.4 Specimen geometry, loading conditions and environmental effects; 6.5 Failure criteria; 6.6 Concluding remarks; Chapter 7. Discontinuities; 7.1 The occurrence of discontinuities; 7.2 Geometrical properties of discontinuities; 7.3 Mechanical properties; 7.4 Discussion; Chapter 8. Rock masses; 8.1 Deformability; 8.2 Strength; 8.3 Post-peak strength behaviour; Chapter 9. Permeability; 9.1 Fundamental definitions; 9.2 Primary and secondary permeability
9.3 Flow through discontinuities9.4 Flow through discontinuity networks; 9.5 Scale effect; 9.6 A note on effective stresses; 9.7 Some practical aspects: grouting and blasting; Chapter 10. Anisotropy and inhomogeneity; 10.1 Definitions; 10.2 Anisotropy; 10.3 Inhomogeneity; 10.4 Ramifications for analysis; Chapter 11. Testing techniques; 11.1 Access to the rock; 11.2 Tailoring testing to engineering requirements; 11.3 Tests on intact rock; 11.4 Tests on discontinuities; 11.5 Tests on rock masses; 11.6 Standardized tests; Chapter 12. Rock mass classification; 12.1 Rock Mass Rating (RMR) system
12.2 Q-system

Sommario/riassunto

Engineering rock mechanics is the discipline used to design structures built in rock. These structures encompass building foundations, dams, slopes, shafts, tunnels, caverns, hydroelectric schemes, mines, radioactive waste repositories and geothermal energy projects: in short, any structure built on or in a rock mass. Despite the variety of projects that use rock engineering, the principles remain the same. Engineering Rock Mechanics clearly and systematically explains the key principles behind rock engineering. The book covers the basic rock mechanics principles; how to study the inte