

1. Record Nr.	UNINA9911006797803321
Titolo	ICE manual of geotechnical engineering . Volume 2 Geotechnical design, construction and verification / / editors, John Burland ... [et al.]
Pubbl/distr/stampa	London, : ICE Publishing, 2012
ISBN	1-62870-394-6 0-7277-5710-5
Descrizione fisica	1 online resource (xvi, 731-1537 p.) : ill
Collana	ICE manuals
Altri autori (Persone)	BurlandJ. B
Disciplina	624.151
Soggetti	Engineering geology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	SECTION 5: Design of foundations -- Chapter 51: Introduction to Section 5 -- Chapter 52: Foundation types and conceptual design principles -- Chapter 53: Shallow foundations -- Chapter 54: Single piles -- Chapter 55: Pile-group design -- Chapter 56: Rafts and piled rafts -- Chapter 57: Global ground movements and their effects on piles -- Chapter 58: Building on fills -- Chapter 59: Design principles for ground improvement -- Chapter 60: Foundations subjected to cyclic and dynamic loads -- SECTION 6: Design of retaining structures -- Chapter 61: Introduction to Section 6 -- Chapter 62: Types of retaining walls -- Chapter 63: Principles of retaining wall design -- Chapter 64: Geotechnical design of retaining walls -- Chapter 65: Geotechnical design of retaining wall support systems -- Chapter 66: Geotechnical design of ground anchors -- Chapter 67: Retaining walls as part of complete underground structure -- SECTION 7: Design of earthworks, slopes and pavements -- Chapter 68: Introduction to Section 7 -- Chapter 69: Earthworks design principles -- Chapter 70: Design of new earthworks -- Chapter 71: Earthworks asset management and remedial design -- Chapter 72: Slope stabilisation methods -- Chapter 73: Design of soil reinforced slopes and structures -- Chapter 74: Design of soil nails -- Chapter 75: Earthworks material specification, compaction and control -- Chapter 76: Issues for pavement design -- SECTION 8: Construction processes -- Chapter 77: Introduction to Section 8 -- Chapter 78: Procurement and specification

-- Chapter 79: Sequencing of geotechnical works -- Chapter 80: Groundwater control -- Chapter 81: Types of bearing piles -- Chapter 82: Piling problems -- Chapter 83: Underpinning -- Chapter 84: Ground improvement -- Chapter 85: Embedded walls -- Chapter 86: Soil reinforcement construction -- Chapter 87: Rock stabilisation -- Chapter 88: Soil nailing construction -- Chapter 89: Ground anchors construction -- Chapter 90: Geotechnical grouting and soil mixing -- Chapter 91: Modular foundations and retaining walls -- SECTION 9: Construction verification -- Chapter 92: Introduction to Section 9 -- Chapter 93: Quality assurance -- Chapter 94: Principles of geotechnical monitoring -- Chapter 95: Types of geotechnical instrumentation and their usage -- Chapter 96: Technical supervision of site works -- Chapter 97: Pile integrity testing -- Chapter 98: Pile capacity testing -- Chapter 99: Materials and material testing for foundations -- Chapter 100: Observational method -- Chapter 101: Close-out reports -- Index to volumes I and II.

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#### Sommario/riassunto

Many civil engineers leave university with some knowledge of applied mechanics, geology and some soil and rock mechanics but often limited grounding in geotechnical engineering. This manual examines this complex topic.

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