1. Record Nr. UNINA9910139520603321

Titolo	Constitutive modeling of soils and rocks [[electronic resource] /] / edited by Pierre-Yves Hicher, Jian-Fu Shao
Pubbl/distr/stampa	London, : ISTE Hoboken, NJ, : John Wiley & Sons, 2008
ISBN	1-282-25384-0 9786613814494 0-470-61108-1 0-470-39366-1
Descrizione fisica	1 online resource (457 p.)
Collana	ISTE
Altri autori (Persone)	HicherPierre-Yves ShaoJian-Fu
Disciplina	624.1/51015118 624.1513
Soggetti	Engineering geology - Mathematical models Soil mechanics - Mathematical models Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"First published in France in 2002 by Hermes Science/Lavoisier entitled 'Modeles de comportement des sols et des roches' ... " --T.p. verso.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Constitutive Modeling of Soils and Rocks; Table of Contents; Preface to the English Edition; Preface to the French; Chapter 1. The Main Classes of Constitutive Relations; 1.1. Introduction; 1.2. The rheological functional; 1.3. Incremental formulation of constitutive relations; 1.4. Rate-independent materials; 1.4.1. Non-linearity of G and H; 1.4.2. Anisotropy of G and H; 1.4.3. Homogenity of degree 1 of G and H; 1.5. Notion of tensorial zones; 1.6. The main classes of rate-independent constitutive relations; 1.6.1. Constitutive relations with one tensorial zone 1.6.2. Constitutive relations with two tensorial zones1.6.3. Constitutive relations with four tensorial zones; 1.6.4. Constitutive relations with n tensorial zones (n > 4); 1.6.5. Constitutive relations with an infinite number of tensorial zones; 1.6.6. Conclusion; 1.7. The main constitutive relations for rate-dependent materials; 1.7.1. First class of

Sommario/riassunto

This title provides a comprehensive overview of elastoplasticity relating to soil and rocks. Following a general outline of the models of behavior and their internal structure, each chapter develops a different area of this subject relating to the author's particular expertise. The first half of the book concentrates on the elastoplasticity of soft soils and rocks, while the second half examines that of hard soils and rocks.

2. Record Nr. UNINA9910959866003321

Autore	Merna Tony
Titolo	Project finance in construction : a structured guide to assessment / / Anthony Merna, Yang Chu, Faisal Al-Thani
Pubbl/distr/stampa	Ames, Iowa, : Blackwell, 2010
ISBN	9786612643316 9781282643314 1282643312 9781444323849 1444323849
Edizione	[1st ed.]
Descrizione fisica	1 online resource (194 p.)
Altri autori (Persone)	ZhuYang Al-ThaniFaisal F
Disciplina	624.068/1
Soggetti	Infrastructure (Economics) - Finance Industrial development projects Risk management Public-private sector cooperation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Project Finance inConstruction; Contents; List of illustrations; List of tables; About the Authors; Preface; 1 Introduction; 1.1 The development of project finance; 1.2 Financial assessment; What is financial assessment?; Why perform a financial assessment?; Who is involved in the risk assessment process?; Where should a financial assessment be performed?; When should a financial assessment be performed?; What data are to be used?; How should assessment outputs be presented?; 1.3 Purpose of this guide; 1.4 Scope of the guide; 2 Project finance; 2.1 Introduction 2.2 Definition of project finance2.3 The key characteristics of project finance; Special project/purpose vehicle; Contractual arrangement; Non-/limited recourse; Off-balance sheet transaction; Robust income stream of the project as the basis for financing; 2.4 Legal and financial considerations in project finance; Legal; Financial; 3 Financial instruments and cash flow modelling; 3.1 Introduction; 3.2 Debt

finance; Senior debt; 3.3 Mezzanine finance; Subordinate debt; Bond finance; 3.4 Equity finance; 3.5 Sources of debt and equity; 3.6 Cash flow modelling and project financing
4 Risk management4.1 Introduction; 4.2 Risk; 4.3 Risk management process; Risk identification; Risk analysis; Risk response; 4.4 Typical risks in project financing; 5 The financial assessment process; 5.1 Introduction; 5.2 The financial assessment structure; SPV assessment; Lenders' assessment; SPV and lender final assessment; 6 Case study; 6.1 Introduction; 6.2 Independent power project; 6.3 Supply and offtake contracts; Supply contracts; Offtake contracts; Applications of supply and offtake contracts; 6.4 Assumptions for initial assessment; 7 Developing the base case model; 7.1 Introduction
7.2 SPV's initial assessment7.3 Identify the estimated activities, time, costs and revenues of the project; 7.4 Development of the base case model; 7.5 Identify major project risks; 7.6 Assessment of base case model incorporating risks; 8 Initial economic assessment by lenders; 8.1 Introduction; 8.2 Financial package assessment; Finance package (1); Finance package (2); Finance package (3); 8.3 Conclusions; 9 Financial engineering; 9.1 Introduction; 9.2 Financial instruments used in financial engineering; Forward rates; Financial futures; Swaps; Options
Caps, floors, collars, swaptions and compound optionsAsset-backed securities; 9.3 Refinancing; 9.4 Reappraising public-private partnerships; 9.5 Techniques applied in the reappraisal of PPP concession agreement; 9.6 Other financial engineering techniques; 10 Final assessment to determine project commercial viability; 10.1 Introduction; 10.2 Detailed risk assessment; 10.3 Financial engineering; Tax holiday; Financial collar; Extending the concession; Increasing debt; Grace period; Phasing construction and operation; Upfront payments; Existing concession revenues; 10.4 Summary
11 Financial close

Sommario/riassunto

Project finance has spread worldwide and includes numerous industrial projects from power stations and waste-disposal plants to telecommunication facilities, bridges, tunnels, railway networks, and now also the building of hospitals, education facilities, government accommodation and tourist facilities. Despite financial assessment of PF projects being fundamental to the lender's decision, there is little understanding of how the use of finance is perceived by individual stakeholders; why and how a financial assessment is performed; who should be involved; where and when it should be perform