

1. Record Nr.	UNINA9910451829103321
Titolo	Stability, failure, and measurements of boreholes and other circular openings [[electronic resource] /] / U.S. National Committee for Rock Mechanics, Geotechnical Board, Commission on Engineering and Technical Systems, National Research Council
Pubbl/distr/stampa	Washington, DC, : National Academy Press, 1993
Descrizione fisica	1 online resource (102 p.)
Altri autori (Persone)	RoegiersJean-Claude
Disciplina	622.24
Soggetti	Borehole mining Boring Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Panel on Borehole Stability." Panel chairman: Jean-Claude Roegiers.
Nota di contenuto	""Stability, Failure, and Measurements of Boreholes and Other Circular Openings""; ""Copyright""; ""Contents""; ""EXECUTIVE SUMMARY""; ""INTRODUCTION""; ""FAILURE""; ""ABNORMAL STABILITY""; ""1 EXCAVATION, MAINTENANCE, AND PERFORMANCE""; ""BEFORE THE EXCAVATION""; ""DURING EXCAVATION""; ""UNSUPPORTED OPENINGS""; ""CHANGE IN STRESSES""; ""CHANGE IN STRENGTH""; ""DECREASE IN SUPPORT CAPACITY""; ""SUPPORTED OPENINGS""; ""HOLE COLLAPSE""; ""INSUFFICIENT BONDING""; ""FORMATION DAMAGE""; ""LONG-TERM STABILITY""; ""2 OBSERVATIONAL EVIDENCE""; ""FIELD OBSERVATIONS""; ""LABORATORY OBSERVATIONS"" ""3 STABILITY ASSESSMENT""""CLOSURE MEASUREMENTS""; ""GEOPHYSICAL MEASUREMENTS""; ""IN-SITU STRESS CONDITIONS""; ""CIVIL AND MINING ENGINEERING""; ""4 ROCK-MASS ASSESSMENT""; ""SCALE OF INVESTIGATION AND RESOLUTION""; ""MECHANICAL PROPERTIES AND THE STABILITY OF THE OPENINGS""; ""PRIMARY FACTORS AFFECTING THE REMOTE ASSESSMENT OF ROCK-MASS PROPERTIES""; ""HIGH-RESOLUTION SURFACE SOUNDING""; ""SEISMIC METHODS""; ""ELECTRICAL RESISTIVITY SOUNDING""; ""RADAR SOUNDING AND RADAR TOMOGRAPHY""; ""ROCK-MASS EXPLORATION

BY MEANS OF PILOT BOREHOLES"; "MEASUREMENT-WHILE-DRILLING (MWD)"
"5 ANALYTICAL AND NUMERICAL MODELING""UNSUPPORTED OPENINGS"; "ELASTIC ANALYSIS"; "INELASTIC ANALYSIS"; "SIMPLIFIED BIFURCATION ANALYSIS"; "ISOTROPIC FAR-FIELD STRESSES"; "NUMERICAL ANALYSIS OF LOCALIZATION PHENOMENA IN DEEP BOREHOLES"; "NONLINEAR EFFECTS"; "TIME-DEPENDENT EFFECTS"; "SCALE EFFECTS"; "SUPPORTED OPENINGS"; "ELASTIC ANALYSIS"; "NONLINEAR OR TIME-DEPENDENT ANALYSIS"; "INTERSECTIONS"; "SLABBING AND EXFOLIATION"; "INFLUENCE OF PREEXISTING DISCONTINUITIES OR STRUCTURE"; "DISCRETE ELEMENT METHOD"; "BLOCK THEORY"
"DISCONTINUOUS DEFORMATION ANALYSIS""6 CONCLUSIONS";
"REFERENCES"
