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| 1. Record Nr. | UNICAMPANIASUN0001048 |
| Autore | Scarpelli, Uberto |
| Titolo | Bioetica laica / Uberto Scarpelli ; a cura di Maurizio Mori |
| Pubbl/distr/stampa | Milano : Baldini & Castoldi, [1998] |
| ISBN | 88-8089-496-X |
| Descrizione fisica | LIII, 247 p. ; 23 cm. |
| Disciplina | 174.9574 |
| Soggetti | Bioetica |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
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| 2. Record Nr. | UNINA9910484233303321 |
| Autore | Wang Yongliang |
| Titolo | Adaptive Analysis of Damage and Fracture in Rock with Multiphysical Fields Coupling [[electronic resource] /] / by Yongliang Wang |
| Pubbl/distr/stampa | Singapore : , : Springer Singapore : , : Imprint : Springer, , 2021 |
| ISBN | 981-15-7197-X |
| Edizione | [1st ed. 2021.] |
| Descrizione fisica | 1 online resource (204 pages) |
| Disciplina | 624.15132 |
| Soggetti | Geotechnical engineering
Applied mathematics
Engineering mathematics
Geotechnical Engineering & Applied Earth Sciences
Mathematical and Computational Engineering |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Introduction -- Finite element algorithm for continuum damage |

evolution of rock considering hydro-mechanical coupling -- Finite element analysis for continuum damage evolution and wellbore stability of transversely isotropic rock considering hydro-mechanical coupling -- Finite element analysis for continuum damage evolution and inclined wellbore stability of transversely isotropic rock considering hydro-mechanical-chemical coupling. .

Sommario/riassunto

This book mainly focuses on the adaptive analysis of damage and fracture in rock, taking into account multiphysical fields coupling (thermal, hydro, mechanical, and chemical fields). This type of coupling is a crucial aspect in practical engineering for e.g. coal mining, oil and gas exploration, and civil engineering. However, understanding the influencing mechanisms and preventing the disasters resulting from damage and fracture evolution in rocks require high-precision and reliable solutions. This book proposes adaptive numerical algorithms and simulation analysis methods that offer significant advantages in terms of accuracy and reliability. It helps readers understand these innovative methods quickly and easily. The content consists of: (1) a finite element algorithm for modeling the continuum damage evolution in rocks, (2) adaptive finite element analysis for continuum damage evolution and determining the wellbore stability of transversely isotropic rock, (3) an adaptive finite element algorithm for damage detection in non-uniform Euler–Bernoulli beams with multiple cracks, using natural frequencies, (4) adaptive finite element–discrete element analysis for determining multistage hydrofracturing in naturally fractured reservoirs, (5) adaptive finite element–discrete element analysis for multistage supercritical CO₂ fracturing and microseismic modeling, and (6) an adaptive finite element–discrete element–finite volume algorithm for 3D multiscale propagation of hydraulic fracture networks, taking into account hydro-mechanical coupling. Given its scope, the book offers a valuable reference guide for researchers, postgraduates and undergraduates majoring in engineering mechanics, mining engineering, geotechnical engineering, and geological engineering. .
