With a modern approach and anticipating future developments, this volume introduces a fresh methodology for the design of all types of rock engineering projects, both at the surface and underground. Guidance is provided on the nature of modelling to support design, on flowcharts, on the information required and on the procedure for the technical auditing of modelling and design. Moreover, the use of computer programs, model calibration through site observation, interpretation of computer results and virtual underground laboratories are described and explained. Elaborate case studies on the design and construction of a rock slope and of a large underground hydroelectric plant, as well as technical auditing protocol sheets with examples, further facilitate bringing theory into practice.

Written by two eminent authors, this illustrated guidebook will benefit engineers, contractors, clients, researchers, lecturers and advanced students who are working on rock engineering projects in civil, mining, geological and construction engineering. Templates of the protocol sheets and more information can be accessed at www.crcpress.com.
Features

- a lively and illustrated approach to Rock Engineering Design by two specialist authors;
- discusses a wide variety of new techniques and anticipates future developments in computing capacity, natural resources, etc.;
- includes in-depth case studies of a rock slope and an underground hydroelectric plant;
- details the use of protocol sheets for technical auditing, supported by worked examples; template sheets can be downloaded from www.crcpress.com;
- provides all essential terminology and rock mass classification plus an extensive bibliography.

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