



Geological Engineering

Luis Gonzalez de Vallejo, Mercedes Ferrer

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A thorough knowledge of geology is essential in the design and construction of infrastructures for transport, buildings and mining operations; while an understanding of geology is also crucial for those working in urban, territorial and environmental planning and in the prevention and mitigation of geohazards.

Geological Engineering provides an interpretation of the geological setting, integrating geological conditions into engineering design and construction, and provides engineering solutions that take into account both ground conditions and environment.

This textbook, extensively illustrated with working examples and a wealth of graphics, covers the subject area of geological engineering in four sections:

- *Fundamentals*: soil mechanics, rock mechanics and hydrogeology
- *Methods*: site investigations, rock mass characterization and engineering geological mapping
- *Applications*: foundations, slope stability, tunnelling, dams and reservoirs and earth works
- *Geohazards*: landslides, other mass movements, earthquake hazards and prevention and mitigation of geological hazards

As well as being a textbook for graduate and postgraduate students and academics, **Geological Engineering** serves as a basic reference for practicing engineering geologists and geological and geotechnical engineers, as well as civil and mining engineers dealing with design and construction of foundations, earth works and excavations for infrastructures, buildings, and mining operations.

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