INSTITUTIONEN FÖR ARKITEKTUR OCH SAMHÄLLSBYGGNADSTEKNIK
Chalmers tekniska högskola

CHALMERS

Kandidatarbete

Examenskod ACEX10

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Rock classification systems

Rock classification systems, such as the RMR and the Q system, are widely used in rock engineering to assess the stability of excavations and the support required. Their validity is currently being questioned, because they are based on a large number of case studies and they are used as black boxes. In order to use them it is necessary to verify their applicability, for example by using analytical solutions, numerical modeling or other classification systems.

Analyze and assess in situ data on the Haga station for the Västlänken project provided by Trafikverket. Evaluate the classification of the rock using at least two different classification systems. Assess the applicability of the classification systems for the specific construction using the two classifications and a further alternative, such as numerical modeling.

Suggested literature:

- B.H.G. Brady, E.T. Brown: Rock Mechanics for underground mining
- J.A. Hudson, J.P. Harrisson: Engineering Rock Mechanics, an introduction to the principles

Målgrupp
Samhällsbyggnadsteknik

Gruppstorlek
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Speciella förkunskaper
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Kan projektet dubbleras?
Ja