

Molron, J., Linde, N., Davy, P., Baron, L., Darcel, C., Selroos, J.-O., Le Borgne, T. and Doolaeghe, D. (2021) GPR-inferred fracture aperture widening in response to a high-pressure tracer injection test at the Äspö Hard Rock Laboratory, Sweden. *Engineering Geology* 292, 106249.

Hakami, E., Mas Ivars, D. and Darcel, C. (2021) Methodology for rock mechanics modelling of the Forsmark site, SKB R-20-13, Svensk Kärnbränslehantering AB.

Selroos, J.-O., Mas Ivars, D., Munier, R., Hartley, L., Libby, S., Darcel, C., Davy, P. and Trincherro, P. (2021) Methodology for discrete fracture network modelling of the Forsmark site. Volume I: Concepts, Data and Interpretation Methods, SKB R-20-11, Svensk Kärnbränslehantering AB.

Darcel, C., Davy, P., Le Goc, R., Doolaeghe, D. and Ghazal, R. (2021) Rock mass effective properties from a DFN approach phase 1 - Elastic properties, SKB R-20-05, Svensk Kärnbränslehantering AB.

Doolaeghe, D., Davy, P., Hyman, J.D. and Darcel, C. (2020) Graph-based flow modeling approach adapted to multiscale discrete-fracture-network models. *Physical Review E* 102(5), 053312.

Molron, J., Linde, N., Baron, L., Selroos, J.-O., Darcel, C. and Davy, P. (2020) Which fractures are imaged with Ground Penetrating Radar? Results from an experiment in the Äspö Hardrock Laboratory, Sweden. *Engineering Geology*, 105674.

Lavoine, E., Davy, P., Darcel, C. and Munier, R. (2020) A Discrete Fracture Network Model With Stress-Driven Nucleation: Impact on Clustering, Connectivity, and Topology. *Frontiers in Physics* 8(9).

Lavoine, E., Davy, P., Darcel, C. and Le Goc, R. (2019) On the Density Variability of Poissonian Discrete Fracture Networks, with application to power-law fracture size distributions. *Advances in Geosciences* 49, 77-83.

Darcel, C., Davy, P., Le Goc, R. and Mas Ivars, D. (2018) Rock mass effective properties from a DFN approach, 2nd International Discrete Fracture Network Engineering Conference, American Rock Mechanics Association, Seattle, USA.

Davy, P., Darcel, C., Le Goc, R., Munier, R., Selroos, I.-O. and Mas Ivars, D. (2018) DFN, why, how and what for, concepts, theories and issues, 2nd International Discrete Fracture Network Engineering Conference, American Rock Mechanics Association, Seattle, USA.

Le Goc, R., Davy, P., Darcel, C. and Selroos, I.-O. (2018) Discrimination of Discrete Fracture Network models using structural and flow data, 2nd International Discrete Fracture Network Engineering Conference, American Rock Mechanics Association, Seattle, USA.

Davy, P., Darcel, C., Le Goc, R. and Mas Ivars, D. (2018) Elastic properties of fractured rock masses with frictional properties and power-law fracture size distributions. *Journal of Geophysical Research: Solid Earth* 123, 6521 - 6539.

Maillot, J., Davy, P., Le Goc, R., Darcel, C. and de Dreuzy, J.R. (2016) Connectivity, permeability, and channeling in randomly distributed and kinematically defined discrete fracture network models. *Water Resources Research* 52(11), 8526-8545.

Darcel, C., Davy, P. and Le Goc, R. (2015) Onkalo POSE experiment - Effective elastic properties of fractured rocks. Working Report 2015-17, Posiva Oy, Olkiluoto, Finland.

Lorig, L., Darcel, C., Damjanac, B., Pierce, M. and Billaux, D. (2015) Application of discrete fracture networks in mining and civil geomechanics. *Mining Technology* 124(4), 239-254.

Darcel, C., Davy, P. and Le Goc, R. (2013) Development of the Statistical Fracture Domain methodology. Application to the Forsmark site, SKB R-13-54, Svensk Kärnbränslehantering AB.

Davy, P., Le Goc, R. and Darcel, C. (2013) A model of fracture nucleation, growth and arrest, and consequences for fracture density and scaling. *Journal of Geophysical Research: Solid Earth* 118(4), 1393-1407.

Davy, P., Le Goc, R., Darcel, C., Bour, O., De Dreuzy, J.-R. and Munier, R. (2010) A Likely-Universal Model of Fracture Scaling and its consequence for crustal hydro-mechanics. *Journal of Geophysical Research - Solid Earth* 115(B10), 1978–2012.

Mas Ivars, D., Pierce, M., Darcel, C., Reyes-Montes, J., Potyondy, D., Young, R.P. and Cundall, P.A. (2010) The synthetic rock mass approach for jointed rock mass modelling. *International Journal of Rock Mechanics and Mining Sciences* 48(2), 219-244.

Darcel, C., Davy, P., Le Goc, R., De Dreuzy, J.-R. and Bour, O. (2009) Statistical methodology for discrete fracture model – including fracture size, orientation uncertainty together with intensity uncertainty and variability, SKB R-09-38, Svensk Kärnbränslehantering AB.

Darcel, C., Davy, P., Bour, O. and De Dreuzy, J.-R. (2006) Discrete fracture network for the Forsmark site, SKB R-06-79, Svensk Kärnbränslehantering AB.

Davy, P., Bour, O., De Dreuzy, J.-R. and Darcel, C. (2006) Flow in multiscale fractal fracture networks. *Geological Society, London, Special Publications* 261, 31-45.

Davy, P., Darcel, C., Bour, O., Munier, R. and De Dreuzy, J.-R. (2006) A note on the angular correction applied to fracture intensity profiles along drill core. *J. Geophys. Res.* 111, B11408.

Darcel, C., Davy, P., Bour, O. and De Dreuzy, J.-R. (2004) Alternative DFN model based on initial site investigations at Simpevarp, SKB R-04-76, Svensk Kärnbränslehantering AB.

Darcel, C. (2003) True Block Scale continuation project Assessment of the feasibility of tracer tests with injection in "background fractures" using a model based on a power law fracture length distribution, SKB IPR-03-41, Svensk Kärnbränslehantering AB.