

## Vybrané publikace / Selected publications

**Blaheta R. ; Kohut R. ; Kolcun A. ; Souček K. ; Staš L. ; Vavro L.:** Digital image based numerical micromechanics of geocomposites with application to chemical grouting. *International Journal of Rock Mechanics and Mining Sciences* 77(2015), 77-88.

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**Axelsson, O. ; Blaheta, R. ; Byczanski, P. ; Karátson, J. ; Ahmad, B.:** Preconditioners for regularized saddle point problems with an application for heterogeneous Darcy flow problems. *Journal of Computational and Applied Mathematics*. 2015, roč. 280, č. 280, s. 141-157. ISSN 0377-0427.

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**Blaheta R. ; Kohut R. ; Starý J. ; Sysala S.:** Computational and reliability aspects of micro-geomechanics, *International Conference on Computer Methods and Advances in Geomechanics (IACMAG 2014)* – Oka, Murakami, Uzuoka, Kimoto (eds), Taylor & Francis Group, London, 2015, pp. 205-210, ISBN 978-1-138-00148-0. <http://www.crcnetbase.com/doi/abs/10.1201/b17435-32>

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**Cermak M. ; Haslinger J. ; Kozubek T. ; Sysala S.:** Discretization and numerical realization of contact problems for elastic-perfectly plastic bodies. PART II – numerical realization, limit analysis. *Z. Angew. Math. Mech.* 1-24 (2015) / DOI 10.1002/zamm.201400069.

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**Axelsson O. ; He X. ; Neytcheva M.:** Numerical Solution of the Time-Dependent Navier–Stokes Equation for Variable Density–Variable Viscosity. Part I. *Mathematical Modelling and Analysis*, 20(2015), 232-260.

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