

List of publications

Patents

- J. Malík: Patent document No. 310138 for PV 2022-109 *Zařízení pro opakované uskladnění energie / Device for repeated energy storage.*

Selected journal papers

- J. Malík, A. Kolcun: [Detemination of the initial stress tensor from deformation of underground opening in excavation proces.](#) Applications of Mathematics, volume 67, issue 3, 2022, pages 297-318.
- J. Malík: [Spectral analysis connected with suspension bridges.](#) IMA Journal of Applied Mathematics, volume 81, issue 1, 2016, pages 42-75.
- J. Malík: [Sudden lateral asymmetry and torsional oscilations in the original Tacoma suspension bridge.](#) Journal of Sound Vibration, volume 332, issue 15, 2013, pages 3772-3789.
- J. Malík, S. Sysala: [Analysis of geosynthetic tubes filled with several liquids with different densities.](#) Geotextiles and geomembranes, volume 29, issue 3, 2011, pages 249-256.
- J. Malík: [Generalized G-convergence for quasilinear elliptic differential operators.](#) Nonlinear Analysis, Theory, Methods and Applications, volume 68, issue 2, 2008, pages 304-314.
- J. Malík: [Nonlinear models of suspension bridges.](#) Journal of Mathematical Analysis and Applications, volume 321, issue 2, 2006, pages 828-850.
- J. Malík: [Asymptotic behaviour of sollutions to cable stayed bridge equations.](#) Journal of Mathematical Analysis and Applications, volume 317, issue 1, 2006, pages 146-162.
- J. Malík: [Instability of oscilations in cable stayed bridges.](#) Applications of Mathematics, volume 50, issue 6, 2005, pages 413-438.
- J. Malík: [Oscilations Cable stayed bridges: Existence, uniqueness, and homogenization of cable systems.](#) Journal of Mathematical Analysis and Applications, volume 266, issue 1, 2002, pages 100-126.
- J. Malík: [Mathematical modelling of rock bolt systems II.](#) Applications of Mathematics, volume 45, issue 3, 2000, pages 177-203.
- J. Malík: [Mathematical modelling of rock bolt systems I.](#) Applications of Mathematics, volume 43, issue 6, 1997, pages 503-525.