

CV Konstantinos Kaklis

Name: Konstantinos Kaklis
Date of birth: 09/09/1972
Address: Department of Mineral Resources Engineering
Technical University of Crete, 73100, Hania
Phone: +30 28210 37703
e-mail: kaklis@mred.tuc.gr

Education

2003 Ph.D., Department of Mineral Resources Engineering, Technical University of Crete.
1995 Diploma, School of Mining and Metallurgical Engineering, National University of Athens.

Professional Experience

07/01/2002 - today Scientific Collaborator at the Mine Design Laboratory and the Rock Mechanics Laboratory, Department of Mineral Resources Engineering, Technical University of Crete.
01/11/2000 - 31/12/2001 Supervising Engineer at "Latomeia Hordakiou", Chania.
01/07/1994 - 31/07/1994 Practical exercise in the mining company G.M.M.A.E. LARKO.

Educational Experience

01/10/1998 - 28/02/1999 He taught at the public I.E.K. of Hania the course "General Principles of Maintenance of Metals".
2002-today Department of Mineral Resources Engineering, Technical University of Crete, tutorial exercises in the following courses: "Open Pit Mine Planning and

Design", 8th semester, "Methods of Underground Mining", 9th semester,
2002-today Participation in undergraduate theses and member of examination committees of undergraduate theses.

Other Activities

- Participation in the local organising committee of scientific congress: 7th National Congress on Mechanics, June 24-26, 2004, Hania, Crete, Greece.

Funded Research

1. Researcher in "Characterization of Mechanical Properties and Damage of Natural Building Stones in Historical Monuments" - SMT4-CT96-2130 MONUMENTS (1996-2000).
2. Researcher in PENED (2001), "Effect of microstructure in the mechanic properties of materials - Calculating Mechanics, Experimental Mechanics and Analytic Methods".

Publications

Graduate Theses

1. Kaklis K. (1995), "Mineralogical and Chemical Constitution of Marmeiko Deposit. Estimation of Ore Deposit with Geostatistics", Diploma Thesis, NTUA, Athens, Greece.
2. Kaklis K. (2003), "Characterization of the Anisotropy and the Indirect Tensile Strength of Rocks, with the Brazilian Test", PhD dissertation, TUC, Chania, Greece.

Papers

1. Agioutantis Z., Kaklis K. and Duvris D., "A Database Retrieval and Classification System for Measured Mechanical Properties of Rock" Proceedings of the 1st International Symposium on Mine Simulation via the Internet, National Technical University of Athens, 2-13 December 1996.

2. Dimitrakopoulos R. and **Kaklis K.**, "*Joint Geostatistical Simulation of Cross-hole Tomographic and Assay Data for Orebody Modelling and Mine Planning*", Proceedings of the 1st International Conference on Information Technologies in the Mineral Industry (via Internet), National Technical University of Athens, 1-12 December 1997.
3. Agioutantis Z., Kleftakis S., Stiakakis X. and **Kaklis K.**, "*Numerical Simulation of the Indirect Tension Test of Rock Specimens*", IASS-IACM 2000, 4th International Colloquium on Computation of Shell & Spatial Structures, June 5-7, 2000, Chania, Greece.
4. Dimitrakopoulos R. and **Kaklis K.**, "*Uncertainty and Optimization in Ore Reserves and Mine Planning: Concepts and Case Studies*", 9th International Symposium on Mine Planning & Equipment Selection, Nov. 6-9, 2000, Athens, Greece.
5. Dimitrakopoulos R. and **Kaklis K.**, "*Integration of Assay and Cross-hole Tomographic Data in Orebody Modeling: Joint Geostatistical Simulation and Application at Mount Isa Mine*", IMM Transactions, Inst. Min. Metall (Section B) 110, January - April 2001, pp. B33-B39.
6. Exadaktylos G. and **Kaklis K.**, "*Applications of an Explicit Solution for the Transversely Isotropic Circular Disc Compressed Diametrically*", Int. J. Rock Mech. & Mining Sci. 38, pp. 227 - 243, 2001.
7. Exadaktylos G., Stavropoulou M., Vardoulakis I. and **Kaklis K.**, "*Nonlinearity of Brittle Geomaterials*", 6th Int. Workshop on Nonlinear Elasticity in Materials, K.U. Leuven, June 2001, pp. 1-29, 2001.
8. Dimopoulou M., **kaklis K.** and Agioutantis Z., "*A numerical and experimental study of marble discs with a central hole under diametral compression (ring test)*", Proceedings of the 1st International Conference on Advances in Mineral Resources Management and Environmental Geotechnology, pp. 31-36, June 7-9, 2004, Chania, Crete, Greece.
9. **Kaklis K.** and Vardoulakis I., "*An Experimental Investigation of the Size Effect in Indirect Tensile test on Dionysos Marble*", Proceedings of the 7th National Congress on Mechanics, pp. 151-157, Vol. II, June 24-26, 2004, Chania, Crete, Greece.
10. Sarris, E., Z. Agioutantis, **K. Kaklis** and S. Kourkoulis, "*Numerical simulation of the cracked Brazilian disk under diametral compression*", 7th International Workshop on

Bifurcation, Instabilities, Degradation in Geomechanics (IW BIDG 2005), Hania, June 13-16, 2005 (abstract and presentation, published by Springer).

11. **K.N. Kaklis**, Z. Agioutantis, E Sarris and A. Pateli, "*A Theoretical and Numerical Study of Discs with Flat Edges Under Diametral Compression (Flat Brazilian Test)*", Proceedings of the 5th GRACM International Congress on Computational Mechanics, pp. 437 - 444, Vol. I, Limassol, Cyprus, 29 June - 1 July 2005.
12. **Kaklis K.N** and Exadaktylos G.E., "Calculation of the Elastic Properties in Transversely Isotropic Dionysos Marble Disc using Strain Gages", 5th Hellenic Conference on Geotechnical and Geoenvironmental Engineering, Xanthi, 31/05-02/06, 2006.
13. **Kaklis, K.**, S. Maurigiannakis, Z. Agioutantis, C. Istantso, "*Investigation of the Indirect Tensile Strength of Transversely Isotropic Dionysos Marble using the Three Point Bending Test*", 13th International Conference on Experimental Mechanics, Experimental Analysis of Nano and Engineering Materials and Structures (ICEM13), Alexandroupolis, Greece, July 1-6, 2007 (abstract).
14. **Kaklis, K.**, Z. Agioutantis, G. Alevizos, and S. Maurigiannakis, "*Microhardness Testing of Marbles and Correlation with Mechanical Properties*", 8th HSTAM International Congress on Mechanics, Patras, 12-14 July, 2007, pp. 601-606.
15. Sarris, E., Z. Agioutantis, **K. Kaklis** and S. Kourkoulis, Numerical simulation of the cracked Brazilian disk under diametral compression, abstract and presentation, Chapter in Bifurcations, Instabilities, Degradation in Geomechanics, ed. G.E. Exadaktylos and I. G. Vardoulakis, (2007), Springer Berlin Heidelberg, pp. 403-430.
16. **Kaklis, K.N.**, M.A. Dimopoulou and Z. Agioutantis, "*A theoretical and experimental investigation of the ring test on Dionysos marble*", Mineral Wealth, Vol 145, October-December, 2007, pp. 39-49.
17. **Kaklis, K.**, Z. Agioutantis, A. Vafidis, S. Maurigiannakis, M. Kouvelas and G. Feggos, Experimental characterization of the bioclastic Limestone of Alfas-Rethimnon, using laboratory and insitu testing, 1st Panhellenic Congress on Structural Materials, 21-23 May 2008, Athens, Greece, pp. 1075-1084.
18. **Kaklis, K.**, S. Maurigiannakis, Z. Agioutantis and G. Bazdanis, An investigation of the mechanical characteristics of Nestos Marble, Volume in Honor of the late Professor K. Kavouridis (accepted paper, in Greek).

Citations

1. Lavrov A. and Vervoort A. in their paper : "Theoretical treatment of tangential loading effects on the Brazilian test stress distribution", Int. J. Rock Mech. & Mining Sci. 39, pp. 275 - 283, 2002.
2. Oí Claesson J. και Bohloli in their paper: "Brazilian test: stress field and tensile strength of anisotropic rocks using an analytical solution", Int. J. Rock Mech. & Mining Sci. 39, pp. 991 - 1004, 2002.

Languages

English