REFERENCES

Abo-Elnor, M., Hamilton, R., and Boyle, J. T.(2003). 3D Dynamic Analysis of Soil-Tool Interaction Using the Finite Element Method. J. Terramechanics, 40(1), 51-62.

Abo-Elnor, M., Hamilton, R., and Boyle, J. T. (2004). Simulation of Soil–Blade Interaction for Sandy Soil Using Advanced 3D Finite Element Analysis. Soil and Tillage Research, 75, 61–73.

Alekseeva, T. V.,Artem'ev, K. A.,Bromberg, A. A., Voitsekhovskii, R. I., and Ul'yanov, N. A. (1985).Machines for Earthmoving Work: Theory and Calculations. Rotterdam: Balkema.

Aluko, O. B. (2008). Finite Element Aided Brittle Fracture Force Estimation During Two-Dimensional Soil Cutting. International Agrophysics, 22, 5-15.

Aluko, O. B., and Chandler, H. W. (2004). A Fracture Strength Parameter for Brittle Agricultural Soils. Biosystems Engineering, 88(3), 369-381.

Anon. a, (2009). Peak Performance Practices, Dippers, P and H Mine Pro Services, Milwaukee, USA.

Anonymous. (2004). Dragline Excavator. Retrieved August 22, 2010, From Wikipedia: http://www.enotes.com/topic/Dragline_excavator.

Anonymous.(2008).Retrieved.December2010,Fromhttp://www.pbase.com/intermodal/image/99215155/original.

Ansys 18 User's Manual. (2018). Getting Started with Ansys.

Azam, S. F., and Rai, P. (2018). Modelling of Dragline Bucket for Determination of Stress. ASME Journals, 78, 392-402.

Beatty,R.A.(1996). Bosmin Technical Bulletin Queensland, Australia. www. bosmin . com /Top net/ Top NetBulletin.pdf

Bende, S. B. and Awate, N. P.(2013). Design, Modelling and Analysis of Excavator's Arm. Int. J. Design Manufacturing Technology. 4, 14–20.

Blouin, S., Hemami, A., and Lipsett, M.(2001). Review of Resistive Force Models for Earthmoving Processes. Journal of Aerospace Engineering, 102-111.

Bright, T. (1985). Onsite Dragline Applications in Open Coal Management. Journal of Scientific Mining, 24 (2), 5-34.

Chi, L., and Kushwaha, R. L. (1989). Finite Element Analysis of Forces on a Plane Soil Blade. Canadian Agricultural Engineering, 31(2), 135-140.

Cleary, P. W. (1998). The Filling of Dragline Buckets. Mathematical Engineering in Industry, 7(1), 1-24.

Coetzee, C. J. and Els, D. N. J.(2009). The Numerical Modelling of Excavator Bucket Filling Using DEM. J. Terramechanics, 46(5), 217–227.

Coetzee, C. J., Basson, A. H., and Vermeer, P. A. (2007). Discrete and Continuum Modelling of Excavator Bucket Filling. Journal of Terramechanics, 44, 177–186.

Davoudi, S., Alimardani, R., Keyhani, A., and Atarnejad, R. (2008). A Two-Dimensional Finite Element Analysis of a Plane Tillage Tool in Soil Using a Non-linear Elastic-Plastic Model. American-Eurasian Journal of Agricultural and Environmental Sc, 3(3), 498-505.

Dayawansa, P., Chitty, G., Kerezsi, B., Bartosiewicz, H., and Price, J. W. (2006). The Cracking of Clusters in Mining Dragline Booms: Causes and Responses. Proceedings of International Conference on Failure Analysis and Maintenance Technologies.

Demirel, N. (2009). Towing - Bucket Performance the Affecting Operational Factors. Mining Condemnation of Symposium Proceedings the Book, 4(6), 267-276.

Demirel, N. E. (2007). Dynamic Dragline Modeling and Boom Stress Analysis for Efficient Excavation. PhD Thesis.

Dragline Dictionary (2014). Mining Intelligence and Benchmarking, Edition, Fourth.

Fielke, J. M. (1999). Finite Element Modelling of the Interaction of the Cutting Edge of Tillage Implements with Soil. Journal of Agricultural Engineering Research, 74, 91-101.

Gilewicz, P. (1999). U.S. Dragline Census. Coal Age, 104(8).

Gill, W. R., and Vanden Berg, G. E. (1968). Soil Dynamics in Tillage and Traction. Washington, U.S.A., Agricultural Research.

Golbasi, O., and Demirel, N. (2015). Investigation of Stress in an Earthmover Bucket Using Finite Element Analysis. A Generic Model for Draglines. Journal of the Southern African Institute of Mining and Metallurgy, 115(7), 623-628.

Handbook, Caterpillar Performance.(2017)."Edition 47." Cat® Publication by Caterpillar Inc., Peoria, Illinois, USA.

Hartman, H. L. (Ed.) (1992). SME Mining Engineering Handbook (2nd Edition ed., Vol. 1). Society for Mining, Metallurgy, and Exploration, Inc.

Hartman, H. L., and Mutmansky, J. M. (2002). Introductory Mining Engineering (2nd Edition ed.). John Wiley and Sons, Inc.

Hearn, E. J. (1997). Mechanics of Materials 2. The Mechanics of Elastic and Plastic Deformation of Solids and Structural Materials, Elsevier.

Hemami, A., Goulet, S., and Aubertin, M. (1994). Resistance of Particulate Media to Excavation. Application to Bucket Loading. International Journal of Surface Mining, Reclamation and Environment, 8, 125-129.

Hettiaratchi, D., and Reece, A. (1974). The Calculation of Passive Soil Resistance. Geotechnique, 24(3), 289-310.

Hofstetter, K. (2002). Analytic Method to Predict the Dynamic Interaction of Dozer Blade with Earthen Material. Proceedings of the 14th International Conference of the ISTVS. Vicksburg.

Humphrey, J. D.(1990). "The Fundamentals of the Dragline. 28." Marion Division-Dresser Ind.

Karpuz, C. and Demirel, N. (2016), Surface Mining, Mine 202 Lecture Notes, Metu, Ankara.

Kavetsky, A.(1999). Modelling Dragline Bucket Dynamics and Digging. Australian Coal, Association Research Program (ACARP).

Lever, P. (2003). Open Cut Automation Scoping Study. Retrieved from Australian Coal Association Research Program (ACARP) Web Site. http://www.acarp.com.au/abstracts.aspx?repId=C11054

MATLAB 18 User's Manual. (2018). Getting Started with MATLAB.

McKyes, E. (1985). Soil Cutting and Tillage. Elsevier, Amsterdam, p. 7.

Meyers, T., and Leslie, B. (2001). Optimized Bucket for Parallel/Universal Rig. Retrieved August 2010, from Australian Coal Association Research Program (ACARP) Web Site: http://www.acarp.com.au/abstracts.aspx?repId=C10034

Mirabediny, H., and E. Baafi.(1998). Dragline Digging Methods in Australian Strip Mines-a Survey.

Mootaz, A. E., Hamilton, R., and Boyle, J. T. (2003). 3D Dynamic Analysis of Soil–Tool Interaction Using the Finite Element Method. Journal of Terramechanics, 40, 51-62.

Mouazen, A. M., and Nemenyi, M. (1999). Finite Element Analysis of Subsoiler Cutting in Non-Homogeneous. Soil and Tillage Research, 51, 1-15.

Nedoredzov, I. (1992). Forces Prediction of Underwater Soil Cutting by Excavating Robots. 9th International Symposium on Automation and Construction, Tokyo.

O'Beirne, T., and Lumley, G. (1997). Improved Dragline Productivity Through Rigging Design. Retrieved June 2010, from Australian Coal Association Research Program (ACARP) Web Site: http://www.acarp. com. Au /abstracts .aspx?repId = C4003.

Osman, M. S. (1964). The Mechanics of Soil Cutting Blades. Journal of Agricultural Engineering Research, 9(4), 313-328.

Owen, D., Feng, R. J., Neto, T., Cottrell, E. A., Wang, M., Pires, F. M., et al. (2002). The Modelling of Multi-Fracturing Solids and Particulate Media. Proceedings of the 5th World Congress on Computational Mechanics. Vienna.

Ozdogan, M. (2002). Interactive Energy Consumption Parameters of Walking Draglines in Turkish Coal Mines (Doctoral dissertation, Middle East Technical University. Department of Mining Engineering).

Ozdogan, M. (2003). Bucket Penetration Mechanism and Force of Dragline Excavators. Mining, Vol. 42, No. 1, March 2003, Ankara, pp. 17-26.

Ozdogan, M. (2009). Estimating Bucket Payload of a Walking Dragline – A Case Study, Balkan Mine Mining Congress, Izmir.

Ozdogan, M. and Machinery, I. (2015). Walking Dragline Bucket Penetration Mechanism and Penetration Forces. https://doi.org/10.13140/RG.2.1.2304.8406.

Ozdogan, M., and Ozdoganb, H. (2016). Digging Forces of Electric Rope Shovel (ERS) and Adjustments Made for a Better Digging Shovel having Optimum Dipper Rake and Tooth Angles.

Ozdogan, Metin. (1984). Walking and Excavation Energy Consumption in Tower Successed Grounds Case Study.

Rai, P., Trivedi, R., and Nath, R. (2000). Cycle Time and Idle Time Analysis of Draglines for Increased Productivity—A Case Study.

Raper, R. L., and Erbach, D. C. (1990). Prediction of Soil Stresses Using the Finite Element Method. Transactions of the ASAE, 33(3), 725-730.Research Program (ACARP) Web Site: http://www.acarp.com.au/abstracts.aspx?repId=C6010

Ridley, P., and Algra, R. (2004). Dragline Bucket and Rigging Dynamics. Mechanism and Machine Theory, 39, 999-1016.

Rowlands, J. (2000). Dragline Rigging and Control System for Universal Dig and Dump. Retrieved August 20, 2010, from Australian Coal Association Research Program(ACARP)WebSite:http://www.acarp.com.au/abstracts.aspx?repId=C9039

Rusinski, E., Harnatkiewicz, P., Kowalczyk, M., and Moczko, P. (2010).Examination of the Causes of a Bucket Wheel Fracture in a Bucket Wheel Excavator. Engineering Failure Analysis, 17(6), 1300-1312.

Ryerson, R. (1980). Patent No. 4233761. United States of America.

Salih, Abdusamad A (2018). Finite Element Method. Department of Aerospace Engineering, Indian Institute of Space Science and Technology.

Srour, J. (1999). Development of Tools and Methods for Rigging Data Specification for use in Dragline Bucket Simulation. Retrieved August 2010, from Australian Coal Association.

Strength, R. (1996). M Chapter 14. Landslides: Investigation and Mitigation, (1586), 372.

Suryo, S. H., Bayuseno, A. P., Jamari, J., and Ramadhan, G. (2018). Simulation of Excavator Bucket Pressuring Through Finite Element Method. Civil Engineering Journal, 4(3).

Swick, W. C., and Perumpral, J. V. (1988). A Model for Predicting Soil-Tool Interaction. Journal of Terramechanics, 25(1), 43-56.

Townson, P., Murthy, P., Guan, Z., and Gurgenci, H. (2001).Optimization of Design Load Levels for Dragline Buckets. Retrieved June 2010, from Australian Coal Association Research Program (ACARP) Web Site: http://www.acarp. com.au/abstracts.aspx?repId=C7003

Tupkar, M. P. and Zaveri, S. R.(2015). Design and Analysis of an Excavator Bucket. Int. J. Sci. Res. Eng. Technol.,4(3), 227– 229.

Vynne, J. F. (2008). Innovative Dragline Monitoring Systems and Technologies. http://tbirdpac.com/support/pdf/innovativedraglinevynne.pdf.

Young, R., and Hanna, A. (1977). Finite Element Analysis of Plane Soil Cutting. Journal of Terramechanics, 14(3), 103-125.

Zelenin, A. N., Balovnev, V. I., and Kerov, L. P. (1986). Machines for Moving the Earth.

Zhu, T. Y. (2012). Some Useful Numbers on the Engineering Properties of Materials (Geologic and Otherwise). GEOL 615, Department of Geophysics.