

## References

---

---

Alekseeva, T. V., K. A. Artem'ev, A. A. Bromberg, R. I. Voitsekhovskii and N. A. Ul'yanov (1986). Machines for Earthmoving Work: Theory and Calculations. Moscow, Mashinostroenie Publishers.

Anonymous (1996). Caterpillar at the Leading Edge of Earthmoving Technology. Mining Magazine: 26-31.

Ballantyne, J. and E. Wong (1998). A Virtual Environment Display for Teleoperated Excavation. Proceedings of the 1998 IEEE/RSJ International Conference on Intelligent Robotics and Systems, Victoria, B. C., Canada.

Balovnev, V. I. (1983). New Methods for Calculating Resistance to Cutting of Soil. New Delhi, Amerind Publishing.

Berg, P. v. d. (1994). Analysis of Soil Penetration. Delft, Delft University of Technology.

Bosoi, E. S., O. V. Verniaev, I. I. Smirnov and E. G. Sultan-Shakh (1987). Theory, Construction and Calculations of Agricultural Machines. New Delhi, India, Oxonian Press.

Brain, M. and T. Harris (2002). How Caterpillar Backhoe Loaders Work, HowStuffWorks. **2002**.

Cheok, K. C. and R. R. Beck, Eds. (1996). Computer Visualization of Dynamic System Motion. Systems Modeling and Computer Simulation. New York, NY, Marcel Dekker, Inc.

Das, B. M. (1991). Principles of Foundation Engineering. Seoul, Korea, Ku-Mee.

Das, B. M. (1999). Shallow Foundations: Bearing Capacity and Settlement. Boca Raton,

FL, CRC Press.

Farrell, D. A. and E. L. Greacen (1966). "Resistance to Penetration of Fine Probes in Compressible Soil." Australian Journal of Soil Research **4**: 1-17.

Fishwick, P. A. (1994). Computer Simulation: Growth Through Extension. <http://www.cis.ufl.edu/~fishwick/paper/paper.html>.

Foley, J. D., A. vanDam, S. K. Feiner and S. F. Hughes (1996). Computer Graphics: Principles and Practice, Addison-Wesley Publishing Company.

Galperin, M., N. Dombrovsky and L. Mestechkin (1982). Construction Equipment. Moscow, Mir Publishers.

Greacen, E. L., D. A. Farrell and B. Cockroft (1968). "Soil Resistance to Metal Probes and Plant Roots." International Congress of Soil Science **1**: 769-779.

Grisso, R. D. and J. V. Perumpral (1985). "Review of Models for Predicting Performance of Narrow Tillage Tool." Transactions of the American Society of Agricultural Engineers **Vol. 28**(No. 4): pp. 1062-1067.

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

Ladanyi, B. and G. H. Johnston (1974). "Behavior of Circular Footings and Plate Anchors Embedded in Permafrost." Canadian Geotechnical Journal **11**: 531-553.

Li, X. and J. M. Moshell (1994). "Real-Time Graphical Simulation of Soil Manipulation." Transactions of the Society for Computer Simulation **11**(3): 195 - 219.

Lipman, R. and K. Reed (2000). Using VRML in Construction Industry Applications. Web 3D VRML 2000 Conference, Monterey, California.

McKyes, E. (1985). Soil Cutting and Tillage. New York, NY, Elsevier Science Publishers.

Millheim, K. K. (1986). "The Role of the Simulator in Drilling Operations." SPE Drilling Engineering: 347-357.

Nichols, H. L. (1976). Moving the Earth: The Workbook of Excavation. Greenwich, North Castle Books.

NIST Computer-Integrated Construction Group (Yr Unknown). VRML for Construction Site Activities. <http://cic.nist.gov/vrml/equip.html>.

NIST Information Technology Laboratory (Yr Unknown). VR Manufacturing Case Studies Caterpillar. [http://www.itl.nist.gov/iaui/ovrt/projects/mfg/mfg\\_cs\\_cat.html](http://www.itl.nist.gov/iaui/ovrt/projects/mfg/mfg_cs_cat.html).

Park, B. (2000). Qualitative Assessment of Bucket Digging. Building Construction, Virginia Polytechnic Institute and State University, Blacksburg, VA

Perumpral, J. V., R. D. Grisso and C. S. Desai (1983). "A Soil-Tool Model Based on Limit Equilibrium Analysis." Transactions of the American Society of Agricultural Engineers **vol. 26**(No. 4): pp. 991-995.

Phair, M. (1996). Construction Workers Are Game for Virtual Equipment. ENR: 30-33.

Seila, A. F. (1995). Introduction to Simulation. Proceedings of the 1995 Winter Simulation Conference.

Terzaghi, K. (1959). Theoretical Soil Mechanics. New York, NY, John Wiley and Sons, Inc.

Wakefield, R. R., J. O'Brien and Jong Perng (1996). Development and Application of Real-Time 3D Simulators in Construction Training. International Conference on Construction Training, Hong Kong, Construction Industry Training Authority.

Wakefield, R. R. and J. B. O'Brien (1994). A "Virtual Reality" Type Simulation System for Construction Automation System Development. Proceedings of the 11th International Symposium on Automation and Robotics in Construction, Brighton, UK.

Yasufuku, N. and A. F. L. Hyde (1995). "Pile End-Bearing Capacity in Crushable Sands." Geotechnique **45**(4): 663-676.

Yu, H. S. and G. T. Houlsby (1991). "Finite Cavity Expansion in Dilatant Soils: Loading Analysis." Geotechnique **41**(2): 173-183.

Yu, H. S. and J. K. Mitchell (1998). "Analysis of Cone Resistance: Review of Methods." Journal of Geotechnical and Geoenvironmental Engineering **124**(2): 140-149.

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