

Research Related Publications

Book Editorships

1. Drnevich, V.P., and Gray, R.E., Editors (1981) *Acoustic Emissions in Beotechnical Engineering Practice*, ASTM Special Technical Publication 750, American Society for Testing and Materials, Philadelphia, PA., 209p.
2. Ebelhar, R.J., Drnevich, V.P., and Kutter, B.L., Editors (1994) *Dynamic Geotechnical Testing II*, ASTM Special Technical Publication 1213, American Society for Testing and Materials, Philadelphia, PA., 427p.

Articles in Refereed Archival Journals

1. Drnevich*, V.P., and Hall, J.R. Jr., "Transient Loading Tests On a Circular Footing," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 92, No. SM6, November, 1966, pp. 153-167.
2. Drnevich*, V.P., and Richart, F.E. Jr., "Dynamic Prestraining of Dry Sand," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 96, No. SM2, March, 1970, pp. 435-469.
3. Hardin*, Bobby O., and Drnevich*, V.P., "Shear Modulus and Damping in Soils - I. Measurement and Parameter Effects," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 98, No. SM6, June, 1972, pp. 603-624.
4. Hardin*, Bobby O. and Drnevich*, V.P., "Shear Modulus and Damping in Soils -II. Design Equations and Curves," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 98, No. SM7, July, 1972, pp. 667-692. (Won the **Norman Medal** of ASCE.)
5. Drnevich, V.P., "Undrained Cyclic Shear of Saturated Sand," *Journal of the Soil Mechanics and Foundations Division*, ASCE, Vol. 98, No. SM8, August, 1972, pp. 807-825.
6. Drnevich, V.P., "Constrained and Shear Moduli for Finite Elements," *Journal of the Geotechnical Engineering Division*, ASCE, Vol. 101, No. GT5, May, 1975, pp. 459-473.
7. Gorman*, C.T., Hopkins, T.C., Deen, R.C., and Drnevich, V.P., "Constant-Rate-of-Strain and Controlled-Gradient Consolidation Testing," *Geotechnical Testing Journal*, ASTM, Vol. I, No. 1, February, 1978, pp. 1-18.
8. Drnevich*, V.P., and Massarsch*, K.R., "Effect of Sample Disturbance on Stress-Strain Behavior of Cohesive Soils," *Journal of the Geotechnical Engineering Division*, ASCE, Vol. 105, No. GT9, Proc. Paper 14809, September, 1979, pp. 1001-1016.
9. Samarasinghe*, A.M., Huang*, Y.H., and Drnevich, V.P., "Permeability and Consolidation of Normally Consolidated Soils", *Journal of the Geotechnical Engineering Division*, ASCE, Vol.108, No. GT5, June, 1982, pp. 835-850.
10. Chung*, R.M., Yokel*, F.Y., and Drnevich, V.P., "Evaluation of Dynamic Properties of Sands by Resonant Column Testing," *Geotechnical Testing Journal*, GTJODJ, Vol. 7, No. 2, June 1984, pp. 60-69.
11. Huang*, Y.H., Drnevich*, V.P., and Hossein, R., "Centrifuge Simulator for Testing Asphalt Pavement Distress," *Transportation Research Record*, Transportation Research Board, 1991. 81 p.
12. Drnevich*, V.P., Hossain*, M.M., Wang, J., and Graves, R.C., "Determination of Layer Moduli in Pavement Systems by Non Destructive Testing," *Transportation Research Record*, No. 1278 Transportation Research Board, 1990, pp 18-26.
13. Graves*, R. Clark, and Drnevich*, Vincent P., "Calculating Pavement Deflections with Velocity Transducers," *Transportation Research Record No. 1293*, Transportation Research Board, 1991, pp. 12-23.

14. Zhang*, M., Street*, R., Harris, J., and Drnevich, V.P. (1993) "A Note on the Influence of Site Conditions on Ground Motion Values Observed for the Southeastern Illinois Earthquake of June 10, 1987, *Seismic Research Letters*, Vol. 64, No. 2, April-June, pp. 149-156.
15. Ashmawy*, A., and Drnevich, V.P. (1994) "General Dynamic Model for the Resonant Column/Quasi-Static Torsional Shear Apparatus," *Geotechnical Testing Journal*, ASTM, Vol. 17, No. 3, September, pp. 337-348.
16. Salgado, R., Drnevich, V. P., Ashmawy, A., Grant, P., and Vallenias, P. (1997). "Interpretation of Large-Strain Crosshole Tests." *Journal of Geotechnical and Geoenvironmental Engineering*, ASCE, Vol.123, No. 4, April, pp. 382-388.
17. Guha, S., Drnevich, V.P., and Bray, J.D., (1997) "Dynamic Characteristics of Old Bay Clay," *Geotechnical Testing Journal*, ASTM, Vol. 20, No. 4, December, pp. 383-393.
18. Ashmawy, A.K, Bourdeau, P.L., Drnevich, V.P., Dysli, M., (1999) "Cyclic Response of Geotextile-Reinforced Soil," *Journal of Soils and Foundations*, Vol. 39, No. 1, February, pp.
19. Feng, W., Lin, C.P., Deschamps, R.J., and Drnevich, V.P., (1999) "Theoretical Model of a Multi-Section TDR Measurement System," *Water Resource Research*, Vol. 35, No. 8, Aug., 2321-2331.
20. Siddiqui, S.I., Drnevich, V.P., and Deschamps, R., (2000) "Time Domain Reflectometry Development for Use in Geotechnical Engineering," *Geotechnical Testing Journal*, ASTM, Vol. 23, No. 1, March, 2000, pp. 9-20. (ASTM Award for Outstanding Article on the Practice of Geotechnical Testing of ASTM, 2002)
21. Lin, C.P., Drnevich, V.P., Deschamps, R.J., (2001) "Full Waveform Analysis of Non-uniform TDR Measurement Systems: Simulation of TDR Waveforms," Submitted to *Water Resources Research*, January 2001.
22. Galvao, T.C.D., Drnevich, V.P., Schulze, D.G., (2003) "A Technique for Cutting Undisturbed Lateritic Soil Block Samples," *Environmental Monitoring and Assessment*, Vol. 84, Kluwer Academic Publishers, Netherlands, pp. 175-181.
23. Yu, X., Drnevich, V. P., 2004, "Time Domain Reflectometry for Compaction Control of Stabilized Soils", Transportation Research Record, *Journal of the Transportation Research Board*, 1868, pp 14-22.
24. Yu, X. , and Drnevich, V.P., (2004) "Soil Water Content and Dry Density by Time Domain Reflectometry," *J. of Geotechnical and Geoenvironmental Engineering*, ASCE, Volume 130, Issue 9, September, pp. 922-934.
25. Drnevich, V.P., Ashmawy, A.K., Yu, X., and Sallam, A.M., (2005) "Time Domain Reflectometry for Water Content and Density of Soils: Study of Soil-Dependent Calibration Constants," *Canadian Geotechnical Journal*, August. Vol. 42, No. 4, pp. 1053-1065
26. Yu, X., and Drnevich, V.P., (2005) "Density Compensation of TDR Calibration for Geotechnical Applications," *Journal of ASTM International*, DOI: 10.1520/JAI12190, January, 16p. (<http://www.astm.org/cgi-bin/SoftCart.exe/JOURNALS/JAI/PAGES/198.htm?L+mystore+cjck2255+1144370439>)
27. Drnevich, V.P., (2005) "Time Domain Reflectometry to Study Soil Behavior," (Invited paper), Presented at the *2nd Chinese Conference on Unsaturated Soils*, and published in the *Chinese Journal of Geotechnical Engineering* (2006).
28. Chen, R.P., Daita, R.K., Drnevich, V.P., and Kim, D.H., (2005) "Laboratory monitoring of physico-chemical process in lime kiln dust stabilized clayey soil," Presented by Dr. R.P. Chen at the *2nd Chinese Conference on Unsaturated Soils* in April 2005, and to be published in the *Chinese Journal of Geotechnical Engineering* (2006). (This paper was recognized as one of the four top of the 52 papers to the conference.)

29. Chen, R., Drnevich, V.P., Yu, X., Nowack, R. (2006) "Water Content Measurements with Time Domain Reflectometry in Highly Conductive Soils using Reflections from the Soil Surface" Accepted for publication in the *J. of Geotechnical and Geoenvironmental Engineering*, ASCE.
30. Daita, R.K., Drnevich, V.P., Kim, D., Chen, R., (2006) "Quality Assessment of Lime Kiln Dust (LKD) Modified Soils by Electrical Conductivity Measured with Time Domain Reflectometry (TDR)," Transportation Research Record: *Journal of the Transportation Research Board*, No. 1952, Transportation Research Board of the National Academies. Washington, D.C., 2006, pp. 101-109.
31. Chen, R., Drnevich, V.P., Daita, R.K., (2007) "Estimating Chemical Dosage and Strength Development of Lime Kiln Dust Treated Soils by TDR" submitted for publication in the *J. of Geotechnical and Geoenvironmental Engineering*, ASCE.

Notes and Discussions in Refereed Archival Journals

1. Massarsch*, K.R., and Drnevich, V.P., "Seismic Response of Nonlinear Soil Media," Discussion of paper by Taylor, P.W., and Larkin, T.T., in the *Journal of the Geotechnical Engineering Div.*, ASCE March, 1978.
2. Min*, T., Drnevich*, V.P., and Wang, J., "Effects of Imperfect Fixity in Spring-Top Resonant Column Tests," Technical Note in *Geotechnical Testing Journal*, ASTM, Vol. 13, No. 4, December 1990, pp. 351-60.
3. Galvão, T.Cássia de Brito., Drnevich, V.P., and Schulze, D.G., "A Technique for Cutting Brittle Undisturbed Soil Block Samples," *Journal of the Geotechnical and Geoenvironmental Engineering*, ASCE, 1998.

Articles in Refereed Proceedings

1. Drnevich*, V.P., Hall, J. R., Jr., and Richart, F. E., Jr., (1967) "Effects of Amplitude of Vibration on the Shear Modulus of Sand," *Proceedings*, Symposium on Wave Propagation and Dynamic Properties of Earth Materials, Univ. of New Mexico, Albuquerque, N.M., pp 189-199.
2. Drnevich, V.P., "Hollow Cylinder Resonant Shear Apparatus," *Proceedings*, 7th International Conference on Soil Mechanics and Foundation Engineering, Mexico City, Vol. 3, 1969, page 529.
3. Drnevich, V.P., "An Innovative A.S.C.E. Student Chapter Structure," *Proceedings of the ASCE Conference on Civil Engineering Education*, Vol. I, Part 2, February, 1974, pp. 988-992.
4. Drnevich, V.P., "Insitu Measurement of Initial Stresses and Deformation Characteristics," *Proceedings of the Geotechnical Engineering Division, ASCE, Specialty Conference*, Raleigh, North Carolina, Vol. II, June, 1975, pp. 244-252.
5. Drnevich*, V.P., Hardin, B.O., and Shippy, D.J., "Modulus and Damping of Soils by the Resonant Column Test," *Dynamic Geotechnical Testing, ASTM STP 654*, American Society for Testing and Materials, September, 1978, pp. 91-125. (**Hogentogler Award of ASTM**)
6. Drnevich, V.P., "Resonant Column Testing-Problems and Solutions," *Dynamic Geotechnical Testing, ASTM STP 654*, American Society for Testing and Materials, September, 1978, pp. 384-398.
7. Massarsch*, K.R., and Drnevich, V.P., "Deformation Properties of Normally Consolidated Clays," *Proceedings of the Seventh European Conference on Soil Mechanics and Foundation Engineering*, Brighton, England, September, 1979, pp. 16-20.
8. Drnevich, V.P., "Normalized Stress-Strain for Undrained Shear Tests," *Laboratory Shear Strength of Soil, ASTM STP 740*, R.N. Yong and F.C.Townsend, Eds., American Society for Testing and Materials, 1981, pp. 387-409.

9. Rose*, J.G., Lin*, C., and Drnevich, V.P., "Hot-Mix Asphalt for Railroad Trackbeds - Construction, Performance, and Overview," *Proceedings*, 1984 Annual Technical Sessions, Association of Asphalt Paving Technologists, 1984, pp. 19-50.
10. Rose*, J.G., Huang*, Y.H., and Drnevich, V.P., "Hot-Mix Asphalt Underlayments for Heavy-Haul Trackbeds," *Heavy Haul Railroad Conference*, Nov. 1985, 35 p.
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13. Drnevich, V.P., "Report on Laboratory Tests for Consolidation Behavior," *Consolidation of Soils: Testing and Evaluation*, *ASTM STP 892*, R.N. Yong and F.C. Townsend, Eds., American Society for Testing and Materials, Philadelphia, 1986, p. 107-114.
14. Hossain*, M., and Drnevich*, V.P., "Numerical and Optimization Techniques Applied to Surface Waves for Backcalculation of Layer Moduli," *First International Symposium on Nondestructive Testing of Pavements and Backcalculation of Moduli*, ASTM Special Technical Publication, 1990.
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16. Anderson, M., and Drnevich, V.P., "A True Dynamic Method for Nondestructive Testing of Rigid Pavements with Overlays," *Proc. of the Fourth International Conference on Concrete Pavement Design and Rehabilitation*, Purdue University, April 1989.
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20. Frost*, J.D., and Drnevich, V.P. (1994) "Towards Standardization of Torsional Cyclic Shear Testing," *Dynamic Geotechnical Testing II*, ASTM 1213, R.J. Ebelhar, V.P. Drnevich, B.L. Kutter, Eds., American Society for Testing and Materials, Philadelphia, PA., pp. 276-287.
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22. Galvão, T.Cássia de Brito, Drnevich, V.P., and Schulze, D.G., (1995) "Chemical, Mineralogical, and Compressibility Characteristics of a Collapsible Lateritic Soil from Minas Gerais, Brazil," *First International Conf. on Unsaturated Soils*, Paris, Balkema Publishers, pp. 39-44.

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25. Lin, Chih-Ping, Drnevich, Vincent P., Feng, Wei, and Richard J. Deschamps, (2000) "Time Domain Reflectometry for Compaction Quality Control," Geotechnical Special Publication on *Use of Geophysical Methods in Construction - GeoDenver2000*, conference sponsored by the GeoInstitute of ASCE in August, pp. 15-34.
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28. Drnevich, V.P., Lovell, J., Tishmack, J., and Yu, X., (2001). "Temperature Effects on Dielectric Constant Determined by Time Domain Reflectometry," *TDR 2001: Innovative Applications of TDR Technology*, Infrastructure Technology Institute, Northwestern University, Evanston, IL, September.
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30. Drnevich, V.P., Yu, X., and Lovell, J., (2003) "Time Domain Reflectometry for Water Content and Density of Soils: Test Procedures and Typical Results," *TRB Annual Meeting*, Washington, D.C., January.
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33. Yu, X., Drnevich, V.P., and Olek, J., (2004) "Time Domain Reflectometry for Measuring Water-Cement Ratio of Concrete," *International Conference on Advances in Concrete through Science and Engineering, RILEM*, Evanston, Illinois, March.
34. Yu, X., Drnevich, V.P., and Olek, J., (2004) "Predicting Strength Development of Concrete by Time Domain Reflectometry," *International Conference on Advances in Concrete through Science and Engineering, RILEM*, Evanston, Illinois, March.
35. Daita, R.K., Drnevich, V.P., and Kim, D., (2005), "Automated Generation of a Family of Compaction Curves", *TRB Annual Meeting*, Washington, D.C., 21 p.
36. Prochaska, A.B., Drnevich, V.P., Kim, D., and Sommer, K., (2005), "A Vibrating Hammer Compaction Test for Granular Soils and Dense Graded Aggregates," *TRB Annual Meeting*, Washington, D.C., 25 p.
37. Drnevich, V.P., (2005), "Some New Uses of Time Domain Reflectometry in Geotechnical Engineering," Richard D. Woods Symposium, *Proceedings, GeoFrontiers Conference*, ASCE, Austin, TX, January, 15 p.
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40. Yu, X., Drnevich, V. P., and Nowack, R. L., (2005) "Statistical Comparison of Models for Soil Dielectric Spectrum", *Symposium on Applied Geophysics for Engineering and Environmental Problems* (SAGEEP), Environmental & Engineering Geophysical Society, Atlanta, GA, April 4.
41. Yu, X., Drnevich, V.P. and Nowack, R.L., (2005), "Comprehensive Evaluation of Near Surface Soil Properties by Combining Electromagnetic Wave and Seismic Wave Method", Proc., *16th International Conference on Soil Mechanics and Geotechnical Engineering* (ICSMGE), Osaka, Japan, September
42. Drnevich, V.P., (2005), "Time Domain Reflectometry to Study Soil Behavior," (Invited), Proc. *2nd Chinese Conference on Unsaturated Soils*, Zhejiang University, Hangzhou, Peoples Republic of China, April.
43. Daita, R.K., Drnevich, V.P., Kim, D., Chen, R., (2006), "Quality Assessment of Lime Kiln Dust (LKD) Modified Soils by Electrical Conductivity Measured with Time Domain Reflectometry (TDR)", *TRB Annual Meeting*, Washington, D.C., January
44. Yu, X., and Drnevich, V.P. (2006) "Mobile Computer for Portable Field Instrumentation System" Proc., *ASCE GeoCongress*, Atlanta, GA, February.
45. Drnevich, V.P., Yu, X., Zambrano, C., and Nowack, R. (2006) "Refined One-Step TDR Method for Water Content and Density" Proc., *ASCE GeoCongress*, Atlanta, GA, February.
46. Yu, X., Drnevich, V.P. and Nowack, R.L., (2006), "Soil Property Variation by Time Domain Reflectometry" *Proceedings, UNSAT2006, The 4th International Conference on Unsaturated Soils*, Phoenix, AZ, April.
47. Zambrano, Carlos E., Drnevich, Vincent, P., Yu, Xiong, Nowack, Robert, (2006). "Soil Texture Characterization from TDR Waveform Analysis", Proc. TDR 2006, Purdue University, West Lafayette, USA, Sept. Paper ID 1, 21 p., <https://engineering.purdue.edu/TDR/Papers>.
48. Yu, Xiong, Drnevich, Vincent P. and Nowack, Robert L., (2006). "Improvements of Soil Dielectric Mixing Model for Inversion Analysis of Time Domain Reflectometry Measurements", Proc. TDR 2006, Purdue University, West Lafayette, USA, Sept., Paper ID 4, 19 p., <https://engineering.purdue.edu/TDR/Papers>
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50. Evans, A.C. and Drnevich, V.P. (2007) "TDR for Compaction Control of Granular Materials with Large Particle Sizes," *20th Symposium on Applications of Geophysics to Engineering and Environmental Problems*, SAGEEP, Denver, Colorado, March.
51. Zambrano, C.E., Drnevich, V.P., Yu, X., and Nowack, R. (2007) "Soil Texture from TDR Waveform Analysis," *20th Symposium on Applications of Geophysics to Engineering and Environmental Problems*, SAGEEP, Denver, Colorado, March.
52. Drnevich, V.P., and Nowack, R. (2007) "Summary of New Developments in TDR for Soils," *20th Symposium on Applications of Geophysics to Engineering and Environmental Problems*, SAGEEP, Denver, Colorado, March.

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3. Gorman, C.T., Hopkins, T.C., and Drnevich, V.P., "Insitu Shear Strength Parameters by Dutch Cone Penetration Tests," *Proceedings of the Fourth Ohio River Valley Soils Seminar*, Lexington, KY, October 5, 1973, pp. 2-1 - 2-11.
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Reports

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