

# LIST OF PUBLICATIONS ON DESIGN METHODS FOR APPLICATIONS OF GEOSYNTHETICS: STABILITY

**J.P. GIROUD**

- Delmas, P., Gourc, J.P., & Giroud, J.P., 1979, "Analyse experimentale de l'interaction mecanique sol-geotextile - Experimental analysis of soil-geotextile interaction", *Proceedings of the International Conference on Soil Reinforcement*, Volume I, Paris, Mars 1979, pp. 29-34. (in French)
- Gourc, J.P. & Giroud, J.P., 1979, "Comment on experimental analysis of soil-geotextile interaction", *Proceedings of the International Conference on Soil Reinforcement*, Vol. III, Paris, March 1979, pp. 72-73. (in French)
- Collios, A., Delmas, P., Gourc, J.P., & Giroud, J.P., 1980, "Experiments on Soil Reinforcement with Geotextiles", *The Use of Geotextiles for Soil Improvement*, 80-177, ASCE National Convention, Portland, Oregon, April 17, pp. 53-73.
- Giroud, J.P., & Ah-Line, C., 1984, "Design of Earth and Concrete Covers for Geomembranes", *Proceedings of the International Conference on Geomembranes*, Vol. 2, Denver, CO, USA, Jun 1984, pp. 487-492.
- Giroud, J.P. & Beech, J.F., 1989, "Stability of Soil Layers on Geosynthetic Lining Systems", *Proceedings of Geosynthetics '89*, Vol. 1, IFAI, San Diego, CA, USA, February 1989, pp. 35-46.
- Giroud, J.P., Swan, Jr., R.H., P.J. Richer, & P.R. Spooner, 1990, "Geosynthetic Landfill Cap: Laboratory and Field Tests, Design and Construction", *Proceedings of the Fourth International Conference on Geotextiles, Geomembranes and Related Products*, Vol. 2, The Hague, The Netherlands, May 1990, pp. 493-498.
- Giroud, J.P., Beech, J.F., & Khatami, A., 1990, "Stability of Solid Waste on Geosynthetic Lining Systems", *Proceedings of the Fourth International Conference on Geotextiles, Geomembranes and Related Products*, Vol. 2, The Hague, The Netherlands, May 1990, p. 526.
- Giroud, J.P., 1990, "Discussion of Geosynthetic Landfill Cap: Laboratory and Field Tests, Design and Construction", *Proceedings of the Fourth International Conference on Geotextiles, Geomembranes and Related Products*, Vol. 3, The Hague, The Netherlands, May 1990, pp. 1097-1098.
- Beech, J.F., Giroud, J.P., & Wallace, R.B., 1993, "Geosynthetics in Hazardous Waste Landfill, Baton Rouge, Louisiana, USA", *Geosynthetics Case Histories*, Raymond, G.P. & Giroud, J.P., Eds., ISSMFE, 1993, pp. 28-29.
- Giroud, J.P., Darrasse, J., & Bachus, R.C., 1993, "Hyperbolic Expression for Soil-Geosynthetic or Geosynthetic-Geosynthetic Interface Shear Strength", *Geotextiles & Geomembranes*, Vol. 12, No.3, pp. 275-286.
- Giroud, J.P., Williams, N.D., Pelte, T., & Beech, J.F., 1995, "Stability of Geosynthetic-Soil Layered Systems on Slopes", *Geosynthetics International*, Special Issue on Design of Geomembrane Applications, Vol. 2, No. 6, pp. 1115-1148.
- Giroud, J.P., Bachus, R.C., & Bonaparte, R., 1995, "Influence of Water Flow on the Stability of Geosynthetic-Soil Layered Systems on Slopes", *Geosynthetics International*, Special Issue on Design of Geomembrane Applications, Vol. 2, No. 6, pp. 1149-1180. (Errata, 1997, Vol. 4, No. 2, pp. 209-210.)

- Matasovic, N., Kavazanjian, E., Jr., & Giroud, J.P., 1998, "Newmark Seismic Deformation Analysis for Geosynthetic Interfaces", *Geosynthetics International*, Special Issue on Geosynthetics in Earthquake Engineering Vol. 5, Nos. 1-2, pp.237-264.
- Hendron, D.M., Fernandez, G., Prommer, P.J., Giroud, J.P., & Orozco, L.F., 1999, "Investigation of the Cause of the 27 September 1997 Slope Failure at the Doña Juana Landfill", *Proceedings of the Seventh International Landfill Symposium*, Sardinia, Italy, October 1999, Vol. 3, pp. 545-554.
- Smith, M.E. & J.P. Giroud, J.P., 2000, "Influence of the Direction of Ore Placement on the Stability of Ore Heaps on Geomembrane-Lined Pads", Chapter 49 in: *Slope Stability in Surface Mining*, W.A. Hustrulid, M.K. McCarter & D.J.A. van Zyl (Editors), Society of Mining, Metallurgy, and Exploration, Inc. (SME), Littleton, Colorado, pp 435 - 438
- Sabatini, P.J., Griffin, L.M., Bonaparte, R., Espinoza, R.D., & Giroud, J.P., 2001, "Reliability of State of Practice for Selection of Shear Strength Parameters for Waste Containment System Stability Analyses", *Proceedings of the 15th GRI Conference*, Houston TX, pp. 86-109.
- Sabatini, P.J., Griffin, L.M., Bonaparte, R., Espinoza, R.D., & Giroud, J.P., 2002, "Reliability of State of Practice for Selection of Shear Strength Parameters for Waste Containment System Stability Analyses", *Geotextiles and Geomembranes*, Volume 20, No. 4, pp. 241-262.
- Giroud, J.P., Thiel, R.S., Kavazanjian, E., & Lauro, F.J., 2002, "Hydrated area of a bentonite layer encapsulated between two geomembranes", *Proceedings of the 7th International Conference on Geosynthetics*, Nice, France, Balkema, Vol. 2, pp. 827-832.
- Frost, J.D., Evans, T.M., Hebler, G.L., & Giroud, J.P., 2002, "Influence of wear mechanisms on geosynthetic interface strengths", *Proceedings of the 7th International Conference on Geosynthetics*, Nice, France, Balkema, Vol. 4, pp. 1325-1328.
- Gross, B.A., Bonaparte, R., & Giroud, J.P., 2002, "Waste Containment Systems: Problems and Lessons Learned," Appendix F in *Assessment and Recommendations for Optimal Performance of Waste Containment Systems*, R. Bonaparte, D.E. Daniel, and R.M. Koerner, U.S. Environmental Protection Agency, National Risk Management Research Laboratory, Cincinnati, OH, 213 p.
- Gross, B.A., & Giroud, J.P., 2003, "Lessons Learned from Landfill Slope Stability Problems," invited paper for *ASCE 19th Central Pennsylvania Conference*, Hershey, Pennsylvania, 21 p.
- Giroud, J.P., Thiel, R.S., & Kavazanjian, E., 2004, "Hydrated area of a bentonite layer encapsulated between two geomembranes", *Geosynthetics International*, Special Issue on Geosynthetic Clay Liners, Vol. 11, No. 4, pp. 330-354.
- Giroud, J.P., 2005, "Geosynthetics engineering: successes, failures and lessons learned", The Vienna Terzaghi Lecture, pp. 11-54 in *Proceedings of 5. Österreichische Geotechniktagung*, Österreichischer Ingenieur und Architekten Verein, Vienna, February 2005, 583 p.
- Thiel, R.S. & Giroud, J.P., 2023, "Localized shear strength mobilization at geosynthetic interfaces caused by spreading soil upslope", *Proceedings of GeoAfrica 2023*, E3S Web of Conferences 368, 01001, <https://doi.org/10.1051/e3sconf/202336801001>, Cairo, Egypt, February 2023, 18 p.
- Giroud, J.P., Plusquellec, H. & Blond, E., 2023, "Design of canals lined with geomembranes", *Proceedings of GeoAfrica 2023*, Cairo, Egypt, February 2023, E3S Web of Conferences 368, 01001, <https://doi.org/10.1051/e3sconf/202336801001>, 47 p.
- Thiel, R.S. & Giroud, J.P., 2024, "Localized shear strength mobilization at geosynthetic interfaces caused by spreading soil downslope", *Proceedings of GeoAmericas 2024*, The 5th Pan-American Conference on Geosynthetics, Toronto, Canada, April-May 2024, 18 p.