



References

- AFCEC (Air Force Civil Engineer Center). "Environmental Directorate." <http://www.afcec.af.mil/Home/Environment/>.
- AFCEC. 2011. "Geostatistical Temporal-Spatial (GTS) Optimization Software." <http://www.itrcweb.org/team/GTS-Optimization-Software>.
- Akaike, H. 1974. "A New Look at the Statistical Model Identification." *IEEE Transactions on Automatic Control* 19:716-723.
- AMEC Foster Wheeler. 2015. "ORION Technology." <http://www.amecfw.com/services/specialist-services/orion-technology>
- Aquaveo. 2015a. "Groundwater Modeling System (GMS) Training." <http://www.aquaveo.com/software/gms-learning>.
- Aquaveo. 2015b. "Groundwater Modeling System (GMS) v 10.0." <http://www.aquaveo.com/software/gms-groundwater-modeling-system-introduction>.
- Aquaveo. 2016a. "GMS-Wiki." <http://www.xmswiki.com/wiki/GMS:T-PROGS>.
- Aquaveo. 2016b. "T-PROGS Support." <http://www.aquaveo.com/software/gms-tprogs>.
- ARANZ Geo Limited. 2015a. "Leapfrog Software." <http://www.leapfrog3d.com/>.
- ARANZ Geo Limited. 2015b. "Leapfrog Software/Training." <http://www.leapfrog3d.com/training-and-support/training>.
- Armstrong, M., A. Galli, H. Beucher, G. Loc'h, D. Renard, B. Doligez, R. Eschard, and F. Geffroy. 2011. *Plurigaussian Simulations in Geosciences*. 2 ed, *Earth Sciences and Geography Series*. Springer-Verlag: Berlin, Heidelberg.
- Artz, M. 2009. "Books about Geostatistics and Spatial Statistics." <https://gisandscience.com/2009/06/23/books-about-geostatistics/>.
- ASTM (ASTM International). 2010a. *Standard Guide for Analysis of Spatial Variation in Geostatistical Site Investigations*. D5922-96(2010). West Conshohocken, PA: ASTM International. www.astm.org.
- ASTM. 2010b. *Standard Guide for Selection of Kriging Methods in Geostatistical Site Investigations*. D5923-96(2010). West Conshohocken, PA: ASTM International. www.astm.org.
- Bivand, R.S., E.J. Pebesma, and V. Gomez-Rubio. 2013. *Applied Spatial Data Analysis with R*. Second edition. New York: Springer.
- Blue Marble Geographics. 2015a. "Global Mapper Training." <http://www.bluemarblegeo.com/solutions/geodesy-training.php>.
- Blue Marble Geographics. 2015b. "Global Mapper v16.2." <http://www.bluemarblegeo.com/products/global-mapper.php>.
- Bossong, C.R., M.R. Karlinger, B.M. Troutman, and A.V. Vecchia. 1999. "Overview and Technical and Practical Aspects for Use of Geostatistics in Hazardous-, Toxic-, and Radioactive- Waste-Site Investigations." Water-Resources Investigations Report 98-4145. Denver, CO: USGS.
- C Tech Development Corporation. 2015a. "MVS/EVS Software." www.ctech.com.
- C Tech Development Corporation. 2015b. "MVS/EVS Software/Training." www.ctech.com/training.
- Cameron, K.P. 2004. "Better Optimization of LTM Networks." *Bioremediation Journal* 8 (03-04):89-108.
- Cameron, K.P., and P. Hunter. 2000. "Optimization of LTM networks: statistical approaches to spatial and temporal redundancy." Spring Natl. Meeting of American Institute of Chemical Engineers, Atlanta, GA.
- Cameron, K.P., and P. Hunter. 2002. "Using Spatial Models and Kriging Techniques to Optimize Long-Term Ground-Water Monitoring Networks: A Case Study." *Environmetrics* 13:629-656.
- Cameron, K.P., and P. Hunter. 2003. "Optimization of LTM networks at AF Plant 6 using GTS." In *Situ and On-Site Bioremediation - 2003*. Proceedings of the Seventh International In Situ and On-Site Bioremediation Symposium, Orlando, FL, June 2003.
- Cameron, K.P., and P. Hunter. 2004. "Optimizing LTM networks with GTS: three new case studies." Conference on Accelerating Site Closeout, Improving Performance, & Reducing Costs Through Optimization, Dallas, TX.
- Carle, S.F. 1999. "T-PROGS Transition Probability Geostatistical Software Version 2.1." Livermore, CA. <http://gmsdocs.aquaveo.com/t-progs.pdf>.
- Castrignanò, A., M. Wong, M. Stelluti, D. De Benedetto, and D. Sollitto. 2012. "Use of EMI, [glossary_exclude]Gamma[glossary_exclude]-Ray Emission and GPS Height as Multi-sensor Data for Soil

- Characterisation." *Geoderma* 175-176:78-89.
- Chambers, J.M. 2008. *Software for Data Analysis: Programming with R*. New York: Springer.
- Chew, P. 2007. "Delaunay Algorithm." <http://www.cs.cornell.edu/home/chew/Delaunay.html> and http://seor.gmu.edu/~klaskey/OR680/MSSSEORProjectsSpring08/BSF_Website/files/Delaunay.html.
- Chilès, J.P., and P. Delfiner. 1999. *Geostatistics, Modeling Spatial Uncertainty, Wiley Series in Probability and Statistics*. New York, NY: John Wiley & Sons.
- Chilès, J.P., and P. Delfiner. 2012. *Geostatistics, Modeling Spatial Uncertainty*. Second Edition. In *Wiley Series in Probability and Statistics*. New York, NY: John Wiley & Sons.
- California DTSC (Department of Toxic Substances Control). 2007. "Stringfellow Hazardous Waste Site – EnviroStor Website." http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=33490001.
- Cressie, N, and C.K. Wikle. 2011. *Statistics for Spatio-Temporal Data*. New York, NY: John Wiley & Sons.
- Cressie, N. 1993. "Statistics for Spatial Data " In *Wiley Series in Probability and Mathematical Statistics*. New York: John Wiley & Sons.
- de Smith, M.J, M.F. Goodchild, and P.A. Longley. 2015. *Geospatial Analysis*. Fifth edition. <http://www.spatialanalysisonline.com/HTML/>.
- Deutsch, C.V., and A.G. Journel. 1992. *GSLIB: Geostatistical Software Library and User's Guide*. First edition. In *Applied Geostatistics Series*. New York: Oxford University Press.
- Diggle, P.J., and P.J. Ribeiro. 2007. *Model-based Geostatistics*. New York: Springer.
- Dobson, A. J. 2001. *An Introduction to Generalized Linear Models*. Second Edition. Chapman & Hall: CRC Press.
- Ecole Des Mines De Paris. 2013. "Isatis Technical Ref., release 13.1. Geovariances." France: Avon Cedex.
- Englund, E., and A. Sparks. 1988. *GEO-EAS (Geostatistical Environmental Assessment Software) User's Guide*. EPA600/4-88/033. Las Vegas: ENMSL, U.S. Environmental Protection Agency.
- ESRI (Environmental Systems Research Institute). 2012. "Natural Neighbor Interpolation." ArcGIS Help 10.1. <http://resources.arcgis.com/en/help/main/10.1/index.html#//005v00000027000000>.
- ESRI. 2013. "ArcGIS Software." <http://www.esri.com/software/arcgis>.
- ESRI. 2015a. "ArcGIS 10.1 Help." Redlands, CA.
- ESRI. 2015b. "ArcGIS Online Training." <http://www.esri.com/training/main>.
- Evers, L., D. A. Molinari, A. W. Bowman, W. R. Jones, and M. J. Spence. 2015. "Efficient and Automatic Methods for Flexible Regression on Spatiotemporal Data, with Applications to Groundwater Monitoring." *Environmetrics* 26 (6):431-441. doi: 10.1002/env.2347.
- Federal Remediation Technologies Roundtable. 2014. "Remediation Optimization." <http://www.frtr.gov/optimization/>.
- Gamma Design Software. 2014. "GS+ Geostatistics for the Environmental Sciences." <https://www.gammadesign.com>.
- Gamma Design Software. 2015. "GS+ Workshops and Training." <http://www.rockware.com/training/training.php>.
- geoR. "A package for geostatistical data analysis using the R software." <http://www.leg.ufpr.br/geoR/>.
- geoRglm. 2015. "Software for generalised linear spatial models using R." <http://gbi.agrsci.dk/~ofch/geoRglm/>.
- Geovariances. 2015a. "Geovariances/ISATIS software." <http://www.geovariances.com/en>.
- Geovariances. 2015b. "Training in Environmental Geostatistics/Isatis Essentials for the Environment." <http://www.geovariances.com/en/environment-training-in-environmental-geostatistics-ar799?lang=en>.
- Geovariances. 2015c. "Kartrottrak software." <http://www.geovariances.com/en/kartrottrak-for-contamination-characterization-ru379>.
- Gibbons, R.D., D.K. Bhaumik, and S. Aryal. 2009. *Statistical Methods for Groundwater Monitoring*. Second edition. In *Statistics in Practice*. New York, NY: John Wiley & Sons.
- Gilbert, R.O. 1987. *Statistical Methods for Environmental Pollution Monitoring*. New York, NY: John Wiley & Sons, Inc.
- Golden Software, Inc. 2015. "Golden Software Support Central." <http://www.goldensoftware.com/support-central>.
- Golden Software, Inc. 2002. "Surfer 8 User's Guide. Contouring and 3D Surface Mapping for Scientists and Engineers." Golden, CO: Golden Software, Inc.
- Golden Software, Inc. 2013. "Surfer 11." <http://www.goldensoftware.com/products/surfer>.
- Golden Software, Inc. 2016. "Voxler 4:Your Complete 3D Well & Volumetric Data Visualization Solution Software." <http://www.goldensoftware.com/products/voxler>.
- Goovaerts, P. 1997. *Geostatistics for Natural Resources Evaluation*. New York: Oxford University Press.

- GRASS GIS Team. 2013. "GRASS GIS Software." <http://grass.osgeo.org>.
- GRASS GIS Team. 2015. "GRASS GIS Support." <http://grass.osgeo.org/support/>.
- GSI Environmental, Inc. 2012. "AFCEE Monitoring and Remediation Optimization System (MAROS) Software: Technical Manual." <http://www.gsi-net.com/en/software/free-software/monitoring-and-remediation-optimization-systems-maros-version-3-0.html>.
- GSI Environmental, Inc. 2013a. "Monitoring and Remediation Optimization Systems (MAROS)." <http://www.gsi-net.com/en/software/free-software/monitoring-and-remediation-optimization-systems-maros-version-3-0.html>.
- GSI Environmental, Inc. 2013b. "Monitoring and Remediation Optimization Systems (MAROS)." Training Webinar. <http://www.gsi-net.com/en/software/free-software/monitoring-and-remediation-optimization-systems-maros-version-3-0.html#Technical%20Support>.
- Harre, K., T. Chaudhry, R. Greenwald, W. Jian, C. Davis, M. Zavislak, and B. Minsker. 2009. "Adaptive Long-Term Monitoring at Environmental Restoration Sites." ESTCP Project ER-0629. <https://www.serdp-estcp.org/index.php/Program-Areas/Environmental-Restoration/Contaminated-Groundwater/Monitoring/ER-200629/ER-200629>.
- Hengl, T. 2009. "A Practical Guide to Geostatistical Mapping of Environmental Variables." http://spatial-analyst.net/book/system/files/Hengl_2009_GEOSTATEc1w.pdf.
- Hengl, T. 2016. "spatial-analyst.net." http://spatial-analyst.net/wiki/index.php?title=Main_Page.
- Hornik, K. 2016. "The R Manuals." <https://cran.r-project.org>.
- Hunter, P., K.P. Cameron, and R. Stewart. 2011. "Demonstration and [glossary_exclude]Validation[/glossary_exclude] of GTS Long-Term Monitoring Optimization Software at Military and Government Sites." ESTCP Project ER-200714. www.serdp.org.
- Ihaku, and Gentleman. 1996. "R: A Language for Data Analysis and Graphics." *Journal of Computational and Graphical Statistics* 5:299-314.
- Institute for Statistics Education. 2016a. "Spatial Analysis Techniques in R, Online Course." <http://www.statistics.com/spatial-analysis-r/>.
- Institute for Statistics Education. 2016b. "Spatial Statistics with GIS." <http://www.statistics.com/spatial-statistics-gis/>.
- Institute for Statistics Education. 2016c. "Statistics Glossary." <http://www.statistics.com/resources/glossary/>.
- Isaaks, E. H., and R. M. Srivastava. 1989. *An Introduction to Applied Geostatistics*. New York, NY: Oxford University Press.
- ITRC (Interstate Technology & Regulatory Council). 2003. *Technical and Regulatory Guidance for the Triad Approach*. SCM-1. Washington, D.C.: Interstate Technology & Regulatory Council, Sampling, Characterization, and Monitoring Team. <http://www.itrcweb.org/GuidanceDocuments/SCM-1.pdf>.
- ITRC. 2004. *Remediation Process Optimization: Identifying Opportunities for Enhanced and More Efficient Site Remediation*. RPO-1. Washington, D.C.: Interstate Technology & Regulatory Council, Remediation Process Optimization Team. <http://www.itrcweb.org/GuidanceDocuments/RPO-1.pdf>.
- ITRC. 2006. "Remediation Process Optimization." <http://www.itrcweb.org/Team/Public?teamID=4>.
- ITRC. 2007. *Triad Implementation Guide*. SCM-3. Washington, D.C.: Interstate Technology & Regulatory Council; Sampling, Characterization, and Monitoring Team. <http://www.itrcweb.org/GuidanceDocuments/SCM-3.pdf>.
- ITRC. 2010. *Use and Measurement of Mass Flux and Mass Discharge*. MASSFLUX-1. Washington, D.C.: Interstate Technology & Regulatory Council, Integrated DNAPL Site Strategy Team. <http://www.itrcweb.org/Guidance/GetDocument?documentID=49>.
- ITRC. 2011. *Project Risk Management for Site Remediation*. RRM-1. Washington, D.C.: Interstate Technology & Regulatory Council, Remediation Risk Management Team. <http://www.itrcweb.org/GuidanceDocuments/RRM-1.pdf>.
- ITRC. 2012a. *Incremental Sampling Methodology*. ISM-1. Washington, D.C.: Interstate Technology & Regulatory Council, Incremental Sampling Methodology Team. www.itrcweb.org/ism-1.
- ITRC. 2012b. "Stakeholder Roles and Responsibilities." Washington, D.C.: Interstate Technology & Regulatory Council. http://www.itrcweb.org/Membership/Member_FAQ.
- ITRC. 2013. *Groundwater Statistics and Monitoring Compliance, Statistical Tools for the Project Life Cycle*. GSMC-1. Washington, D.C.: Interstate Technology & Regulatory Council, Groundwater Statistics and Monitoring Compliance Team. <http://www.itrcweb.org/gsmc-1/>.

- Johnston, K., J.M. Ver Hoef, K. Krivoruchko, and N. Lucas. 2003. *ArcGIS® 9. Using ArcGIS® Geostatistical Analyst*. Redlands, CA: ESRI.
- Jones, W. R. , M. J. Spence, A. W. Bowman, L. Evers, and D. A. Molinari. 2014. "A Software Tool for the Spatiotemporal Analysis and Reporting of Groundwater Monitoring Data." *Environmental Modeling and Software* 55:242-249.
- Jones, W. R., M. J. Spence, and M. Bonte. 2015. "Analyzing Groundwater Quality Data and Contamination Plumes with GWSDAT." *Groundwater* 53 (4):513-514.
- Kitanidis, P.K. 1997. *Introduction to Geostatistics Applications in Hydrogeology*. Cambridge, UK: Cambridge University Press.
- Kresic, N., and A. Mikszewski. 2012. *Hydrogeological Conceptual Site Models: Data Analysis and Visualization*. Boca Raton, FL: CRC Press. <https://www.crcpress.com/Hydrogeological-Conceptual-Site-Models-Data-Analysis-and-Visualization/Kresic-Mikszewski/p/book/9781439852224>
- Krivoruchko, K. 2011. *Spatial Statistical Data Analysis for GIS Users*. Redlands, CA: ESRI Press.
- Krivoruchko, K., and R.S. Bivand. 2009. "GIS, Users, Developers, and Spatial Statistics: On Monarchs and Their Clothing." StatGIS 2003, International Workshop on Interfacing Geostatistics, GIS and Spatial Databases, Pörschach, Austria.
- Landrum, C. 2013. "Mapping and decomposing scale-dependent soil moisture variability within an inner bluegrass landscape.", Theses and Dissertations, Plant and Soil Science, University of Kentucky (Paper 34).
- Lantuéjoul, C. 2002. *Geostatistical Simulation, Models and Algorithms*. Berlin, Germany: Springer.
- Li, K.B., P. Goovaerts, and L.M. Abriola. 2007. "A Geostatistical Approach for Quantification of Contaminant Mass Discharge Uncertainty Using Multilevel Sampler Measurements." *Water Resources Research* 43 (6).
- Mantoglou, A., and J.L. Wilson. 1982. "The Turning Bands Method for Simulation of Random Fields Using Line Generation by a Spectral Method." *Water Resources Research* 18:1379-1394.
- Matzke, B.D., L.L. Newburn, J.E. Hathaway, L.M. Bramer, J.E. Wilson, S.T. Dowson, L.H. Segó, and B.A. Pulsipher. 2014. "Visual Sample Plan Version 7.0 User's Guide." PNNL-23211. Richland, WA: Pacific Northwest National Laboratory.
- McCullagh, P., and J.A. Nelder. 1989. *Generalized Linear Models*. Second edition. London: Chapman & Hall.
- Morari, F., A. Castrignanó, and C. Pagliarin. 2009. "Application of Multivariate Geostatistics in Delineating Management Zones with a Gravelly Vineyard Using Geo-Electrical Sensors." *Computers and Electronics in Agriculture* 68:97-107.
- NAP (National Academies Press). 2012. *Alternatives for Managing the Nation's Complex Contaminated Groundwater Sites*. National Research Council.
- National Conference of State Legislatures (NCSL). 2016a. "National Conference of State Legislatures (NCSL) Federally Recognized Tribes." <http://www.ncsl.org/research/state-tribal-institute/list-of-federal-and-state-recognized-tribes.aspx#federal>.
- NCSL. 2016b. "National Conference of State Legislatures (NCSL) State Recognized Tribes." <http://www.ncsl.org/research/state-tribal-institute/list-of-federal-and-state-recognized-tribes.aspx#State>.
- NIST/SEMATECH (National Institute of Standards and Technology/Semiconductor Manufacturing Technology). 2012. "e-Handbook of Statistical Methods." <https://www.nist.gov/programs-projects/nistsematech-engineering-statistics-handbook>.
- Olea, R.A. 2009. "A Practical Primer on Geostatistics: U.S. Geological Survey Open-File Report 2009-1103." Reston, VA: U.S. Geological Survey. <http://pubs.usgs.gov/of/2009/1103/>.
- Pebesma, E.J., and R.S. Bivand. 2005. "Classes and Methods for Spatial Data: the sp Package." https://cran.r-project.org/web/packages/sp/vignettes/intro_sp.pdf.
- PNNL (Pacific Northwest National Laboratory). 2011. "Visual Sample Plan." Pacific Northwest National Laboratory. <http://vsp.pnnl.gov>.
- PNNL. 2015a. "Visual Sample Plan Online Help." Pacific Northwest National Laboratory. <http://vsp.pnnl.gov/help/>.
- PNNL. 2015b. "Visual Sample Plan Training Schedule." Pacific Northwest National Laboratory. http://vsp.pnnl.gov/training/current_training.aspx.
- PNNL. 2015c. "VSP Documentation." <http://vsp.pnnl.gov/documentation.stm>.
- R Development Core Team. 2008. "R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing." <http://www.r-project.org>.
- Remy, N., A. Boucher, and J. Wu. 2009. *Applied Geostatistics with SGeMS: A User's Guide*. Cambridge, UK: Cambridge University Press.

- Ricker, J.A. 2008. "A Practical Method to Evaluate Ground Water Contaminant Plume Stability." *Ground Water Monitoring & Remediation* 28 (4):85-94.
- Rivoirard, J. 1994. *Introduction to Disjunctive Kriging and Nonlinear Geostatistics*. Oxford: Clarendon.
- RockWare. 2015a. "RockWorks Software." <https://www.rockware.com/index.php>.
- RockWare. 2015b. "RockWorks Software/Workshops & Training." <https://www.rockware.com/training/training.php>.
- Sakamoto, Y., M. Ishiguro, and G. Kitagawa. 1986. *Akaike Information Criterion Statistics*. Dordrecht, The Netherlands: Reidel.
- SAS (Statistical Analysis System) Institute, Inc. 2013. "SAS Products and Solutions." <http://support.sas.com/software/products/stat/index.html#s1=5>.
- SAS Institute, Inc. 2015a. "Statistical Analysis with SAS/STAT ® Software." <http://www.sas.com/technologies/analytics/statistics/stat/index.html>.
- SAS Institute, Inc. 2015b. "Statistical Analysis with SAS/STAT ® Software Training." <https://support.sas.com/edu/prodcourses.html?code=STAT&ctry=US>.
- SAS Institute, Inc. 2015c. "SAS Books." <http://support.sas.com/publishing/index.html>.
- Shell Global Solutions. 2014. "GWSDAT Software." www.api.org/GWSDAT.
- Shell Global Solutions. 2015. "GWSDAT Software FAQ." <http://www.claire.co.uk/projects-and-initiatives/gwsdat?showall=&start=6>.
- Stanford University. 2015a. "Stanford Geostatistical Modeling Software (SGeMS)/User Resources." <http://sgems.sourceforge.net/?q=node/18>.
- Stanford University. 2015b. "Stanford Geostatistical Modeling Software (SGeMS)/User Forum." <http://sgems.sourceforge.net/?q=forum/10>.
- Stanford University. 2015c. "Applied Geostatistics with SGeMS: A Users' Guide." https://pangea.stanford.edu/departments/ere/dropbox/scrif/documents/reports/20/SCRF2007_Report20/SCRF2007_Report20/myBoucherWu_Book.pdf.
- Stanford University. 2015d. "Stanford Geostatistical Modeling Software (SGeMS)." <http://sgems.sourceforge.net/>.
- Stark, P.B. 2013. "Glossary of Statistical Terms." University of California, Berkeley. <http://www.stat.berkeley.edu/~stark/SticiGui/Text/gloss.htm>.
- Sukumar, N. 1997. "A Note on Natural Neighbor Interpolation and the Natural Element Method." http://dilibert.engr.ucdavis.edu/~suku/nem/nem_intro/node3.html.
- Summit Envirosolutions, Inc. 2013. "Summit Envirosolutions, Our Software." Summit Envirosolutions. <http://www.summite.com/software.html>.
- Tobler, W. 1970. "A Computer Movie Simulating Urban Growth in the Detroit Region." *Economic Geography* 46 (2):234-240.
- University of Tennessee. 2013a. "Spatial Analysis and Decision Assistance (SADA)." The Institute for Environmental Modeling, Department of Ecology and Evolutionary Biology, University of Tennessee. <http://www.sadaproject.net>.
- University of Tennessee. 2013b. "Spatial Analysis and Decision Assistance (SADA) Software References." The Institute for Environmental Modeling, Department of Ecology and Evolutionary Biology, University of Tennessee. <http://www.sadaproject.net/applications.html>.
- University of Tennessee. 2013c. "Spatial Analysis and Decision Assistance (SADA) User Guide." The Institute for Environmental Modeling, Department of Ecology and Evolutionary Biology, University of Tennessee. <http://www.sadaproject.net/documentation.html>.
- University of Tennessee. 2016. "SADA Yahoo User Group." <http://www.sadaproject.net/sadausergroup.html>.
- U.S. Army (United States Army). "U.S. Army Environmental Command." <https://aec.army.mil/>.
- USACE (United States Army Corps of Engineers). "EM CX Technical Checklists." <http://www.hnc.usace.army.mil/Missions/EnvironmentalandMunitions/EMCXChecklists.aspx>.
- USACE. "Remediation System Evaluations." <http://www.hnc.usace.army.mil/Media/FactSheets/FactSheetArticleView/tabid/10784/Article/12003/remediation-system-evaluations.aspx>.
- USACE. 1999. "Remedial System Evaluation Instruction Guide." <http://www.hnc.usace.army.mil/Portals/65/docs/Directorates/EMCX/Checklists/Remedial%20System%20Evaluation.pdf>.

- USEPA (United States Environmental Protection Agency). 1989. "Methods for Evaluating the Attainment of Cleanup Standards, Vol. 1 Soils and Solid Media." EPA 230/02-89-042. Washington, D.C.: U.S. Environmental Protection Agency.
- USEPA. 1996. "Geostatistical Sampling and Evaluation Guidance for Soils and Solid Media." Washington, D.C.: Office of Environmental Information, U.S. Environmental Protection Agency.
- USEPA. 2002a. "Guidance on Choosing a Sampling Design for Environmental Data." EPA QA/G-5S. Washington D.C.: U.S. Environmental Protection Agency. <https://www.epa.gov/sites/default/files/2015-06/documents/g5s-final.pdf>.
- USEPA. 2002b. "Pilot Project to Optimize Superfund-Financed Pump and Treat Systems: Summary Report and Lessons Learned." EPA 542-R-02-008a. Washington, D.C.: United States Environmental Protection Agency.
- USEPA. 2003. "Using the Triad Approach to Streamline Brownfields Site Assessment and Cleanup." In *Brownfields Technology Primer Series*. United States Environmental Protection Agency, Office of Solid Waste and Emergency Response, Brownfields Technology Support Center. <https://www.epa.gov/sites/production/files/2015-05/documents/triadprimer.pdf>.
- USEPA. 2004. "Demonstration of Two Long-Term Monitoring Optimization Approaches." EPA 542-R-04-001a. Washington, D.C.
- USEPA. 2006a. "Data Quality Assessment: Statistical Methods for Practitioners." EPA QA/G-9S; EPA/240/B-06/003. Washington, DC: U.S. Environmental Protection Agency. <https://www.epa.gov/quality/guidance-data-quality-assessment>.
- USEPA. 2006b. "Guidance on Systematic Planning Using the Data Quality Objectives Process." EPA QA/G-4; EPA/240/B-06/001. Washington D.C.: United States Environmental Protection Agency. <https://www.epa.gov/quality/guidance-systematic-planning-using-data-quality-objectives-process-epa-qag-4>.
- USEPA. 2006c. "Seminar: Uses of Spatial Analysis and Decision Assistance (SADA) Sponsored by: U.S. EPA, Office of Solid Waste and Emergency Response, Technology Innovation Program." <http://www.clu-in.org/conf/tio/SADA/>.
- USEPA. 2008. "Resources for Planning New Data Collection, EPA Quality System." www.epa.gov/QUALITY/rnewdata.html.
- USEPA. 2009. "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities." In *Unified Guidance*, EPA 530/R-09-007. Washington DC: U.S. Environmental Protection Agency. www.epa.gov.
- USEPA. 2011a. "Quality Management Tools – Data Verification and Validation." <http://www.epa.gov/QUALITY/vandv.html>.
- USEPA. 2011b. "Seminar: Use of Geostatistical 3-D Data Visualization/Analysis in Superfund Remedial Action Investigations." Sponsored by: U.S. EPA, Technology Innovation and Field Services Division. https://clu-in.org/conf/tio/3d_092311/.
- USEPA. 2012a. "National Strategy to Expand Superfund Optimization Practices from Site Assessment to Site Completion." OSWER #9200.3-75. Washington, D.C.: United States Environmental Protection Agency. <https://www.epa.gov/superfund/cleanup-optimization-superfund-sitestructure/092012strategy.pdf>.
- USEPA. 2012b. "Remedy Optimization." <http://www.epa.gov/superfund/cleanup/postconstruction/optimize.htm>.
- USEPA. 2013a. "CLU-IN: Optimizing Site Cleanups." <http://clu-in.org/Optimization/>.
- USEPA. 2013b. "Optimization Review State Road 114 Groundwater Plume Superfund Site (Groundwater Treatment System and Soil Vapor Extraction System)." EPA 540-R-013-018.
- U.S. Navy (United States Navy). 2012. "Guidance for Optimizing Remedial Action Operation (RA-O)." UG-NAVFAC EXWC-EV-1301. Columbus, OH.
- U.S. Navy. 2014. "Optimization Roadmap." Navy Facilities Command (NAVFAC). http://www.navfac.navy.mil/navfac_worldwide/specialty_centers/exwc/products_and_services/ev/erb/opt.html.
- Wahba, G. 1990. *Spline Models for Observational Data*. Philadelphia: SIAM.
- Waterloo Hydrogeologic. 2015a. "HydroGeo Analyst Software." <https://www.waterloohydrogeologic.com/hydro-geoanalyst/>.
- Waterloo Hydrogeologic. 2015b. "HydroGeo Analyst Software Training." <https://www.waterloohydrogeologic.com/hydro-geoanalyst/>.
- Webster, R., and M.A. Oliver. 2001. *Geostatistics for Environmental Scientists*. Chichester, UK: John Wiley & Sons.
- Woolfenden, L., and K.M. Kocot. 2001. *Numerical Simulation of Ground-Water Flow and Assessment of the Effects of Artificial Recharge in the Rialto-Colton Basin, San Bernardino County, California*. USGS Water Resources Investigation Report 00-4243: U.S. Department of the Interior, U.S. Geological Survey.
- Yates, S.R., and M.W. Yates. 1990. "Geostatistics for Waste Management: A Users' Manual for the GEO PACK (Version1.0)

Geostatistical Software System." EPA/600/8-90/004 (NTIS PB90-186420/AS). Washington, D.C.: U.S. Environmental Protection Agency.

Zhang, J., P. Atkinson, and M. Goodchild. 2014. *Scale in Spatial Information Analysis*. Boca Raton, FL: CRC Press.

Zhang, Y. 2011. "Introduction to Geostatistics — Course Notes." Laramie, WY: University of Wyoming.

<http://geofaculty.uwyo.edu/yzhang/files/Geosta1.pdf>.