

SELECTED PUBLICATIONS

Book:

Myers, R.H., Montgomery, D.C., Anderson-Cook, C.M. (2009). **Response Surface Methodology: Process and Product Optimization Using Designed Experiments**. 3rd Ed. New York: Wiley.

Refereed Journal Articles:

Anderson-Cook, C.M. (1998). "Designing a First Experiment: A Project for Design of Experiment Courses," *The American Statistician*, 52(4):338-342.

Anderson-Cook, C.M. (2001). "Understanding the Influence of Several Factors on a Cylindrical Response," *Journal of Quality Technology*, 33:167-180.

Zahran, A., Anderson-Cook, C.M. and Myers, R.H. (2003). "Fraction of Design Space to Assess the Prediction Capability of Response Surface Designs," *Journal of Quality Technology*, 35:377-386.

Goldfarb, H.B., Borror, C.M., Montgomery, D.C., Anderson-Cook, C.M. (2003). "Three-Dimensional Variance Dispersion Graphs for Mixture-Process Experiments," *Journal of Quality Technology*, 36:109-124.

Goldfarb, H.B., Anderson-Cook, C.M., Borror, C.M., Montgomery, D.C. (2003). "Fraction of Design Space to Assess the Prediction Capability of Mixture and Mixture-Process Designs," *Journal of Quality Technology*, 36:169-179.

Gantovnik, V.B., Anderson-Cook, C.M., Gurdal, Z., Watson, L.T. (2003). "A Genetic Algorithm with Memory for Mixed Discrete-Continuous Design Optimization," *Journal of Computers & Structures*, 81:2003-2009.

Goldfarb, H.B., Borror, C.M., Montgomery, D.C., Anderson-Cook, C.M. (2004). "Evaluation of Statistical Designs for Mixture-Process Variable Experiments with Noise Variables," *Journal of Quality Technology*, 36:245-262.

Sheldon, K.E., Anderson-Cook, C.M. & O'Brien, W.F. (2004). "Using Computer Modeling to Optimize Cost and Maintain Performance Constraints for Production of Aircraft Turbine Engines," *Quality and Reliability Engineering International*, 20:541-551.

Drain, D., Carlyle, W.M., Montgomery, D.C., Borror, C.M., Anderson-Cook, C.M. (2004). "Genetic Algorithm Hybrid for Constructing Optimal Response Surface Designs," *Quality and Reliability Engineering International*, 20:637-650.

Ozol-Godfrey, A., Anderson-Cook, C.M., Montgomery, D.C. (2005) "Fraction of Design Space Plots for Examining Model Robustness". *Journal of Quality Technology* 37 223-235.

Anderson-Cook, C.M., Patterson, A., Hoerl, R. (2004) "A Structured Problem Solving Course for Graduate Students: Exposing Students to Six Sigma as Part of their University Training". Quality and Reliability Engineering International 21 249-256.

Liang, L., Anderson-Cook, C.M., Robinson, T.J. (2006) "Fraction of Design Space Plots for Split-Plot Designs" Quality and Reliability Engineering International 22 275-289.

Ozol-Godfrey, A., Anderson-Cook C. M. (2007) "Fraction of Design Space Plots for Examining Mixture Design Robustness to Measurement Errors" Journal of Statistics and Applications 1 171-183.

Anderson-Cook, C.M., Graves, T., Hamada, M., Hengartner, N., Johnson, V., Reese, C.S., Wilson, A.G. (2007) "Bayesian Stockpile Reliability Methodology for Complex Systems" Journal of the Military Operations Research Society 12 25-37.

Parker, P.A., Anderson-Cook, C.M., Robinson, T.J., Liang, L. (2008) "Robust Split-Plot Designs" Quality and Reliability Engineering International 24 107-121.

Anderson-Cook, C.M., Graves, T., Hengartner, N., Klamann, R., Wiedlea, A.K., Wilson, A.G., Anderson, G., Lopez, G. (2008) "Reliability Modeling using Both System Test and Quality Assurance Data" Journal of the Military Operations Research Society 13 5-18.

Anderson-Cook, C.M., Borrer, C.M., Montgomery, D.C. (2009) "Response Surface Design Evaluation and Comparison" (with discussion and rejoinder) Journal of Statistical Planning and Inference 139 629-641, 671-674.

Anderson-Cook, C.M. (2009) "Evaluating the Series or Parallel Structure Assumption for System Reliability" Quality Engineering 21 88-95.

Robinson, T.J., Anderson-Cook, C.M., Hamada, M. (2009) "Bayesian Analysis of Split-Plot Experiments with Non-Normal Responses for Evaluating Non-Standard Performance Criteria" Technometrics 51 56-65.

Anderson-Cook, C.M., Borrer, C.M., Jones, B. (2009) "Graphical Tools for Assessing the Sensitivity of Response Surface Designs to Model Misspecification" Technometrics 51 75-87.