R&D Statistics Course

12 Lectures

1 Statistical Review and Excel
2 Statistical Review, Excel and R
3 Statistical Review, Comparisons, ANOVA, Regression Analysis
4 Smoothing of Data - Loess and Splines
5 General Factorial Experiments, Analysis of Variance
6 Blocking Effects and Designs
7 2-level Factorial Designs - Screening of Factors
8 Fractional Factorial Designs
9 Central Composite Designs and Response Surface Modeling
10 Mixture Experiment Designs, Regression Diagnostics, Polynomial Regression
11 Nonlinear Regression - Fundamental, Algebraic Models
12 Nonlinear Regression - Differential Equations Models