Statistics Task Group of ASQC
and
American Statistical Association
Santa Clara Section
Present

J. Stuart Hunter

A leading translator of significant statistical concepts into a format suitable for industrial application, Professor Hunter is practical, informative and entertaining. Professor Hunter has many years of industrial consulting experience. He is co-author with G.E.P. Box and W.G. Hunter of Statistics for Experimenters, is founding editor of Technometrics, and has published extensively. He has received the Deming Medal and the Shewhart Medal from the ASQC.

The Arts of Charts
This two day course provides a "show and tell" of graphical and charting techniques. It presents statistically sound visual approaches to gain understanding from data.

Course Outline
Modern Graphics
histograms
stem & leaf plots
two level comparisons
Elementary Statistics
concepts vs. realizations
simple hypothesis testing
More Graphics
normal probability paper
Weibull plots
Measuring Uncertainty
probability: relative frequency
Bayes postulate
Shewhart Quality Control Charts
selecting rational subgroups
setting up the X-bar and R chart
Estimating process capability
the capability index, C_p
Variations on the Shewhart Chart
acceptance sampling chart
multivariate control charts
CuSum (Cumulative Sum) Charts
plotting
detecting changes in slope, V mask
one-sided CuSum procedures
EWMA Charts
exponentially weighted moving average
comparison with Shewhart and CuSum
Simple Statistical Design of Experiments
iterative nature of the learning process
passive vs. active statistics

Design of Experiments
Experimentation speeds the learning process. This two day course shows how to develop a strategy for experiential investigation at minimal cost, how to design the experiments, and how to analyze them. It focuses on the statistical tools and concepts of greatest use to the industrial statistician.

Course Outline
Learning is a process
Elementary statistics
The normal deviate as "signal to noise"
Student's t statistics
Hypothesis tests
Interval estimates, Bayesian interpretation
Comparing two processes
Combining estimates of variance
Blocking variability
Paired t, sequential t, EVOP
Comparing k processes
Graphical "signal to noise"
Multifactor experimentation
The 2^k factorial design
The 2^3 factorial design
The 2^n and 2^k designs
Screening experimentation
Fractional factorial designs
The 2^k-1 half replicate designs
The 2^k-p designs
Sequential application
Three level fractional factorials
The Latin Square
Taguchi approaches
First order mapping, k=2
Path of steepest ascent
Second order mapping, k=2
Designs for k>2

The Arts of Charts  $595.00  Sunnyvale Hilton  March 27,28
Design of Experiments  $595.00  Sunnyvale Hilton  March 29,30

Name__________________________________________
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