

2024 Spring – SPC&O HW#10

1. Use the experimental results from slides 32 and 33 of SPCO3.1 to
 - (a) re-calculate the surface defect and thickness SN ratios using only Test Wafer 1 data.
 - (b) Plot SN ratio effect plots.
 - (c) Based on results of (a) and (b), suggest the optimal factor levels.
 - (d) Use the additive model to predict the results of the starting condition with the underscored factor levels and the optimum conditions with the suggested optimal factor levels.
 - (e) Re-do (a)-(d) for Test Wafer 3 and compare and discuss the results.
2. Please find an orthogonal array for an experiment for two 2-level factors and ten 3-level factors. Provide the experimental matrix..