

Statistics 215a - 10/20/03 - D.R. Brillinger

Hardness of gold alloy fillings - continued.

(Seheult and Tukey)

Which is the dental gold filling that is hardest?

Diamond Pyramid Hardness Number (DPHN)

Factor A - 8 types of gold alloy - A1, A2, ...

Factor B - 3 methods of condensation

Factor C - 5 dentists

Response - sum of 10 DPH's

Robust results

Overall level - 735.03

Alloys - A6 and A7 largest: 85.31, 58.46

Condensation - B3 smallest: -95.87

Interaction - A1.B3 largest : 83.13

Lets call a result "exotic" if the weight in the robust analysis is < 1 .

There are 19 exotic values

11 are with D4 and D5

10 are with B3