Ch-03 R Codes

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Textbook: Montgomery, D. C. (2012). *Design and analysis of experiments*, 8th Edition. John Wiley & Sons.

Online handouts: https://github.com/PingYangChen/ANOVA_Course_R_Code

Chapter 3

One-way ANOVA

```r
df1 <- read.csv(file.path("data", "3_PlasmaEtching.csv"))
```

```r
summary(df1)
```

```
##        i            Power         EtchRate
##  Min.   : 1.00   Min.   :160   Min.   :530.0
##  1st Qu.: 5.75   1st Qu.:175   1st Qu.:573.8
##  Median :10.50   Median :190   Median :605.0
##  Mean   :10.50   Mean   :190   Mean   :617.8
##  3rd Qu.:15.25   3rd Qu.:205   3rd Qu.:659.5
##  Max.   :20.00   Max.   :220   Max.   :725.0
```

```r
# Draw the grouped boxplot
boxplot(EtchRate ~ Power, data = df1)
```