Mathematical Statistics with Applications (7th Edition)



Chapter 11, Problem 101SE





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Problem

The data in the accompanying table come from the comparison of the growth rates for bacteria types A and B. The growth Y recorded at five equally spaced (and coded) points of time is shown in the table.

| Bacteria Type | Time | | | | |
|---------------|------|------|------|------|------|
| | -2 | -1 | 0 | 1 | 2 |
| A | 8.0 | 9.0 | 9.1 | 10.2 | 10.4 |
| В | 10.0 | 10.3 | 12.2 | 12.6 | 13.9 |

a Fit the linear model

$$Y = \beta_0 + \beta_1 x_1 + \beta_2 x_2 + \beta_3 x_1 x_2 + \varepsilon$$

to the n = 10 data points. Let $x_1 = 1$ if the point refers to bacteria type B and let $x_1 = 0$ if the point refers to type A. Let x_2 = coded time.

b Plot the data points and graph the two growth lines. Notice that S₁ is the difference between. the slopes of the two lines and represents time-bacteria interaction.

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