Contents

- 1 Residual Analysis for Linear Models
- 1.1 Key Concepts

Residual

Influence

Outlier

Leverage

1.2 Studentized and Standardized Residuals

1.3 Cook's Distance

1.3.1 infleunce

This function provides the basic quantities which are used in forming a wide variety of diagnostics for checking the quality of regression fits.

1.3.2 Interpreting Cook's Distance

1.3.3 Using the plot command

- Homogenety of Variance of Residuals
- •
- •

1.3.4 Coding the four plots together

```
par(mfrow=c(2,2))
plot(FittedModel)
par(opar)
```

1.4 Diagnostics of LME Models