

Douglas M. Bates

Contents

1 A Simple, Linear, Mixed-e ects Model

2.3.1 The InstEval Data	47
-------------------------------	----

List of Figures

1.1	Yield of dyestu	from 6 batches of an intermediate	5
1.2	Simulated data similar in structure to the Dyestuff data.....		6
1.3	Image of the	for model	

2.16	Image of the sparse Cholesky factor, L, from model fm4	49
3.1	E ort to arise by subject and stool type	56
3.2	Profile zeta plot for the parameters in model fm5	58
3.3	Profile zeta plot for the parameters in model fm5	58
3.4	Prediction intervals on the random e ects for stool type	59
3.5	Profile plot of the parameters in model fm4.	61
3.6	Activation of brain regions in rats	62
4.1	Lattice plot of the	