Contents

	page
Preface	vii
Section 1	1
Tests concerning variances	1–5
Summary	5
One tailed and two tailed tests	6–11
Summary	11
The *F*-distribution	11–15
Steps in application [6]	
Summary	16
Exercises for Section 1	17
Physical sciences and engineering	17
Biological sciences	17
Social sciences	18
Section 2	19
Regression	19–31
Scatter diagram, dependent variable, regressor variable, regression coefficient	
Summary	31

Coefficient of correlation 32–41
Summary 41

Exercises for Section 2 42

Physical sciences and engineering 42

Biological sciences 43

Social sciences 45

Solutions to Exercises, Section 1 47

Physical sciences and engineering 47

Biological sciences 49

Social sciences 49

Solutions to Exercises, Section 2 51

Physical sciences and engineering 51

Biological sciences 55

Social sciences 58

Tables 62

χ^2 – tests involving variances 62

χ^2 – one tailed tests 63, 64

χ^2 – two tailed tests 65

F-distribution 66–69