

Contents

1	Introduction to Growth Curve Analysis	1
	ADDENDUM: Structural and Nonstructural Analysis	1
	The Structural Models	2
	The BTT model	3
	The JPA2 model	3
	The Jenss-Bayley model	3
	Fitting the Structural Models	4
	Nonstructural Smoothing	7
2	The AUXAL Program	9
	Descriptive Features of the Growth Curves	9
	Summary of the Analysis of a Sample of Cases	10
	Types of Data	12
	Using the AUXAL Program	14
3	The AUXAL Commands	15
	Command Syntax	15
	Summary of Commands	16
	TITLE	18
	COMMENT	15
	PROCEDURE	19
	VARIABLES	21
	MEAN	22
	COVARIANCE	24
	ERROR	26
	AGES	27
	CASES	28
	LIST	29
	TECHNICAL	30
	SAVE	33
	INPUT	35
	CONTINUE	40
	STOP	41
	PLOT	42
	Variable Format Statements	44
4	The PLOTTW Program	45
	Growth Curve Displays	45
	Using the PLOTTW Program	46

5	Sample Command and Data Files	47
	Example 1	47
	Example 1A	49
	Example 2	51
	Example 2A	52
	Example 3	53
	Example 4	55
	Example 4A	56
	Example 5	57
	Example 6	58
	Example 7	60
	Example 7A	61
6	Output of Sample Problem	63
	Example 1: Listing of EXAMPL01.OUT	63
	Example 1: Screen plot examples	81
	ADDENDUM	
	Structural and Nonstructural Analysis of Multiphasic Growth	85
	Structural Analysis: the Triphasic Logistic Model	89
	Nonstructural Analysis	99
	Approximating the Autocorrelation Function	104
	Conclusion	107
	REFERENCES	111
	Author index	115
	Subject index	117