

contents

vii Preface

		1.
1	Roundoff and function evaluation	
		2.
33	Real zeros of a function	
		3.
57	Complex zeros	
		4.
81	Zeros of polynomials	
		5.
105	Simultaneous linear equations and matrices	
		6.
143	Interpolation and roundoff estimation	
		7.
	175	Integration
		8.
199	Ordinary differential equations	
		9.
	221	Optimization
		10.
	247	Least squares

		11.
261	Orthogonal functions	
		12.
	283	Fourier series
		13.
297	Chebyshev approximation	
		14.
309	Random processes	
		15.
325	Design of a library	
	329	Index