

Contents

Preface	iv
1 Descriptive statistics	1
1.1 General aspects of statistical techniques	1
1.2 Basic concepts	2
1.3 Frequency distributions and charts	4
1.4 Statistical measures	12
2 Correlation	30
2.1 Functional and correlative relationship	30
2.2 Types of correlation	31
2.3 Linear correlation, coefficients of correlation	33
2.4 Spearman's rank correlation coefficient	41
3 Regression	43
3.1 The task of a regression	43
3.2 Linear regression	44
3.3 Quadratic regression	45
3.4 Exponential regression	47
3.5 Error estimation of regression	49
3.6 The use of software	49
4 Time series	50
4.1 Basic concepts	50
4.2 Patterns in time series	51
4.3 Time series trend	54
4.4 Time series model	56

5	Index numbers	60
5.1	Basic concepts	60
5.2	Individual indices	61
5.3	Aggregate indices	63
6	Consumer's mathematics	64
6.1	Percents	64
6.2	Simple and compound interest	66
6.3	Depreciation	72
6.4	Present value	75
6.5	Installment buying and mortgages	77
6.6	Annuities	79
7	Basic decision methods in business	83
7.1	Giving structure to decision tasks	83
7.2	Decision making under certainty	85
7.3	Decision making under strict uncertainty	86
7.4	Practical aspects of selecting the criterion to use	89
7.5	Decision making under risk	90
7.6	Sequential decisions	96
	References	99
	Index	101
	Summary	104