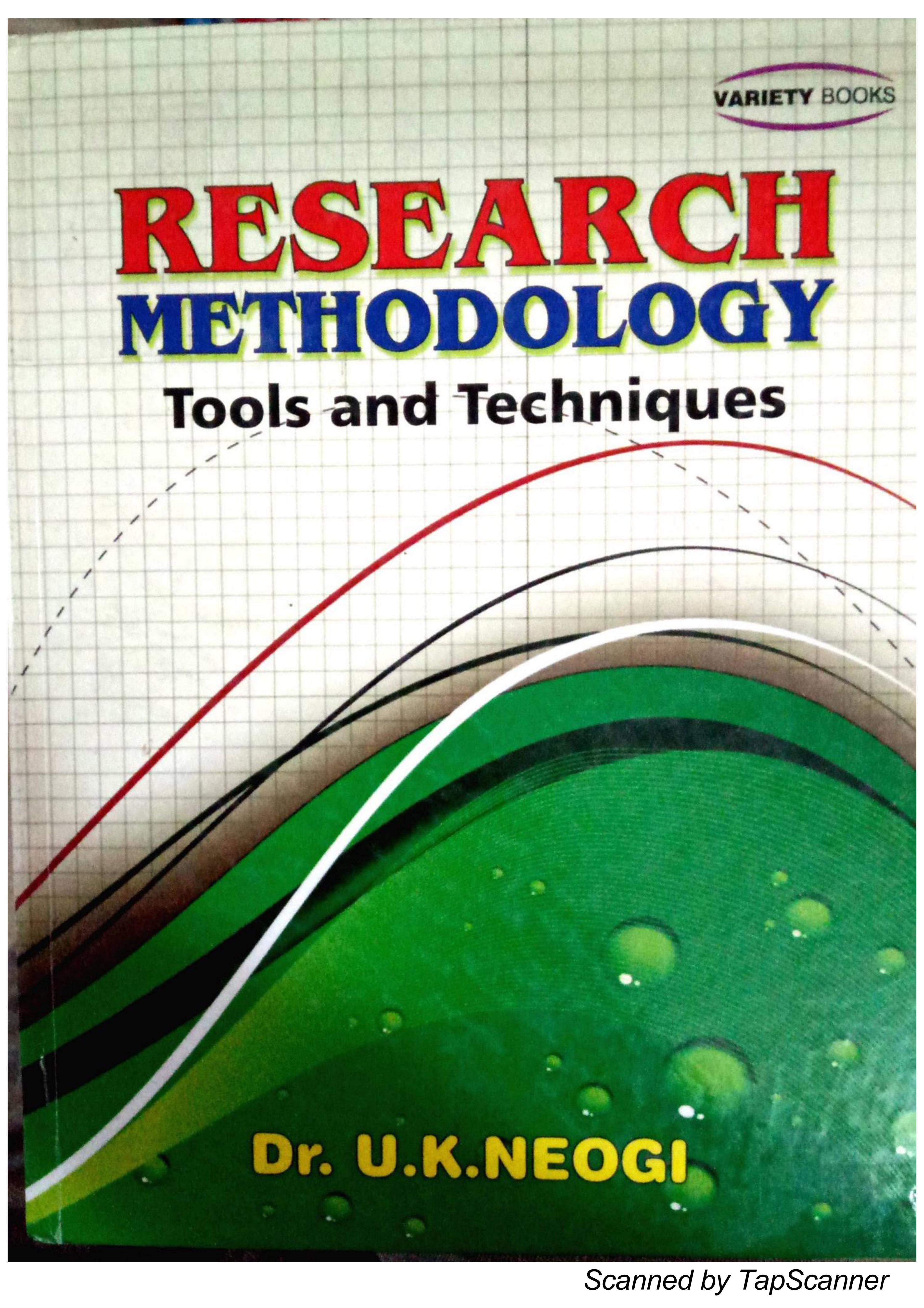


VARIETY BOOKS

RESEARCH METHODOLOGY

Tools and Techniques



Dr. U.K.NEOGI

Contents

A Bird's Eye View (Summary)	1-19
Unit-I	
1. Introduction to Research Methodology	21-34
1.1 Definition of Research.....	22
1.2 Business Research Concept	23
1.3 Meaning of Research	24
1.4 Nature of Research	25
1.5 Research Objectives	26
1.6 Importance and Scope of Research	27
1.7 Importance and Scope of Research Methodology	28
1.8 Need of Research Management	30
1.9 Managerial Value of Business Research.....	32
1.10 Review Questions	33
2. Components of Theory	35-43
2.1 Meaning and Definition of Research	36
2.2 Concepts	36
2.3 Constructs	37
2.4 Variables.....	37
2.5 Hypothesis	37
2.6 Review Questions	41
3. Research Process	45-60
3.1 Research Process Definition	46
3.2 Research Process Flow Chart	52
3.3 Components and Structure of a Research	55
3.4 Review Questions	57

Contents

Unit-II

4. Research Design	61-75
4.1 Research Design Concepts	62
4.2 Types of Research Design.....	63
4.3 Review Questions	75
5. Sampling Design-Steps in Sampling Design.....	77-99
5.1 Nature of Sampling	78
5.2 Need for Sample.....	78
5.3 Steps in Sampling Design	79
5.4 Advantages of Sampling	82
5.5 Limitations of Sampling	82
5.6 Criteria of Selecting Sampling Procedure	83
5.7 Types of Sampling Techniques	86
5.8 Review Questions	98
6. Measurement	99-115
6.1 Concept of Measurement.....	102
6.2 Types of Measurement.....	103
6.3 Construction of Scales	108
6.4 Criteria of Good Measurement	111
6.5 Review Questions	115

Unit-III

7. Data Collection Method : Primary and Secondary	117-123
7.1 Introduction	118
7.2 Types of Data	118
7.3 Selection of Data Collection Method	118
7.4 Collection of Primary Data	119
7.5 Collection of Secondary Data	120
7.6 Sources of Secondary Data	120
7.7 Advantages of Secondary Data	122
7.8 Disadvantages of Secondary Data	122
7.9 Review Questions	123

Contents

8. Questionnaire Design and Observational Method	125-138
8.1 Introduction	126
8.2 Questionnaire Design Process	126
8.3 Types of Questionnaire	128
8.4 Kinds of Observation	133
8.5 Importance and Limitations of Observation	136
8.6 Review Questions	137
9. Basic Quantitative Techniques	139-160
9.1 Numbers	140
9.2 Frequency	141
9.3 Table	144
9.4 Mean, Median, Mode	145
9.5 Measures of Dispersion	146
9.6 Standard Deviation (SD)	148
9.7 Quartile Deviation (QD)	149
9.8 Mean Deviation (MD)	150
9.9 Skewness	154
9.10 Kurtosis	157
9.11 Correlation	158
10. Data Analysis and Interpretation.....	161-179
10.1 Introduction	162
10.2 Editing	162
10.3 Coding	165
10.4 Classification	166
10.5 Tabulation of Data	170
10.6 Kinds of Statistical Tables.....	171
10.7 Preparation of Tables	171
10.8 Methods of Tabulation	174
10.9 Review Questions	179

Contents

11. Parametric Test for Hypothesis Testing	181-202
11.1 Parametric and Non-Parametric Tests	182
11.2 Student T-distribution Test (T-test).....	183
11.3 Chi-square Test	192
11.4 One-Way ANOVA.....	197
11.5 Review Questions	202
12. Non-Parametric Tests for Hypothesis Testing	203-208
12.1 Non-parametric Tests or Distribution-free Tests	204
12.2 Characteristics of Distribution-free of Non-Parametric Test	204
12.3 Wilcoxon's Matched-pair Signed-rank Test	205
12.4 Mann-Whitney U-Test	206
12.5 Krushal-Wallis H-Test	206
12.6 Review Questions	208
13. Dependent and Interdependent Methods.....	209-217
13.1 Multivariate Analysis.....	210
13.2 Multiple Regression Anallysis.....	211
13.3 Discriminant Analysis.....	212
13.4 Conjoint Analysis	213
13.5 Factor Analysis.....	213
13.6 Cluster Analysis	214
13.7 Multidimensional Scaling.....	215
13.8 Review Questions	217

Unit-IV

14. Ingredients of Research Report	219-238
14.1 Tools of Research	220
14.2 Ingredients of Research Report	220
14.3 Preliminary	220
14.4 Text.....	222
14.5 Reference Materials	223
14.6 Academic Research.....	226
14.7 Synopsis.....	227
14.8 Taking Notes	236
14.9 Time-scheduling and Progress Reports	237
14.10 Qulifications of a Researcher	238

Contents

15. Computer in Research	239-251
15.1 Introduction	240
15.2 SPSS, Applications in Business Research	242
15.3 Independent Sample and Paired Sample Test	243
15.4 Frequency Tables and Chi-Squared Test	244
15.5 ANOVA	245
15.6 Factorial Experiment with Interactions	246
15.7 Correlation	246
15.8 Regression	247
15.9 Discriminant Analysis	247
15.10 Factor Analysis	248
15.11 Cluster Analysis	249
16. Business Plan	253-268
16.1 Overview	254
16.2 Business Design	255
16.3 Business Plan	259
16.4 Marketing Plan	261
16.5 Distribution Channel	265
16.6 Operational Plan	266
17. Procedure for Preparation of Reference and Bibliography	269-271
17.1 Procedure of Preparation of Reference and Bibliography	270
18. Case Study	273-303
18.1 What are Case Studies?	274
18.2 About the Workshop	274
18.3 History of Business Cases	275
18.4 Problem-based Learning (PBL)	275
18.5 The Benefits of Case Study Analysis	278
18.6 Case Studies (1-10)	279
Glossary	305-328
Ratio and Statistical Techniques	329-341
Bibliography	343-345
Question Papers	347-357
Tables	359-369
Index	371-376