Contents

	Series Editor's Introduction	ix
	Preface	xi
	Acknowledgments	xiii
1.	Preliminaries	1
-	1. Notation and Terminology	3
	2. Odds Ratios for 2 × 2 Contingency Tables	5
	3. Goodness-of-Fit: General Considerations	8
	4. The Model of Independence	12
	5. The Saturated Model	15
	6. Measures of Association	17
	7. An Example: The Midtown Manhattan Study	19
2.	The Linear-by-Linear Interaction Model	22
	1. Category Scores and a Simple Model	23
	2. Identification Issues: The Impact of Location and Scale	25
	3. Reanalysis of the Midtown Manhattan Data	26
	4. Design Matrix Formulation	28
	5. Logit Version of the Model	29
	6. The Model as a Procedure for Fitting the Correlation	30
	7. Collapsing Categories	31
	8. The Jackknife Method for Contingency Tables	34
	6. The Jackking Medica for Contingency Lacros	

	39
1. The U, R, and C Models	41
2. The R + C Model	44
3. The RC (Log-Multiplicative) Model	46
4. Some Properties of the RC Model	46
5. Identification and Rescaling in the RC Model	49
6. The ANOAS Table	53
7. ANOAS Applied to Occupation by Schooling	
in the United States	55
8. Conclusion	60
Other Models for Two-Way Tables:	
Symmetry-Type Models	62
	63
	66
3. A Composite Model for Square Tables	69
	71
	73
6. Some Possible Extensions	76
Multiple Dimensions of Association	
	80
	81
	83
` ,	0.6
* "	86
	89
6. A Distance Matrix	93
	96
Occupation by Education Form 1	
	98
in University Distributions	
in Univariate Distributions	100
Bivariate Association in Multiple Groups	116
1. Conventional Log-Linear Models for the Three-Way Table	117
2. Conditional Association Models: Null and Uniform	
Models	120
3. A Family of Conditional Association Models With	
"One-Dimensional" Association Structure	123
4. An Example: Gender Differences in Occupation by	
Schooling	127
5. Multiple-Group Models With Multiple Dimensions	•
of Association	130
	 The RC (Log-Multiplicative) Model Some Properties of the RC Model Identification and Rescaling in the RC Model The ANOAS Table ANOAS Applied to Occupation by Schooling in the United States Conclusion Other Models for Two-Way Tables: Symmetry-Type Models Quasi-Independence Symmetry, Quasi-Symmetry, and Marginal Homogeneity A Composite Model for Square Tables An Example: Religious Mobility Tables Some Other Models and Another Example Some Possible Extensions Multiple Dimensions of Association The RC(M) Association Model Identification and Degrees of Freedom The RC(M) Association Model and the RC(M) Correlation Model Graphical Displays and Geometric Representations of Association Models RC(M) Models Applied to Occupation by Schooling A Distance Matrix Alternative Two-Dimensional Displays for the Occupation by Education Example Association Models for Analysis of Group Differences in Univariate Distributions Bivariate Association in Multiple Groups Conventional Log-Linear Models for the Three-Way Table Conditional Association Models: Null and Uniform Models A Family of Conditional Association Models With "One-Dimensional" Association Structure An Example: Gender Differences in Occupation by

	 6. Additional Analysis of Occupation by Schooling by Gender Using RC(2)-Type Models 7. Other Approaches for Analysis of Bivariate Association in Multiple Groups 8. Some Other Applications of Conditional Association Models 	132 135 136
,		
7.	Logit-Type Regression Models for Ordinal	139
	Dependent Variables 1. Standard Procedures	140
	2. Contrasts for Discrete Ordinal Variables: A Family of	110
		144
	Logit Models 3. Some Properties of the Adjacent Category Logit Model	149
		155
	4. A Simple Example5. An Example With Scaled and Categorical Predictors	158
	6. General Methods for Diagnosis and Testing	163
	7. Other Types of Model Comparisons	171
	7. Other Types of Woder Comparisons	
	References	177
	Author Index	183
	Subject Index	185
	About the Authors	192
	ADOUGHE AUGIOIS	