CONTENTS

Series Editor's Introduction		**v**
Preface		**vii**
1.	**Introduction**	**1**
	Probabilities and Odds	2
	The Logistic Regression Model	3
	Categorical Predictors and Dummy Variables	5
	Predicted Values in Logistic Regression	6
	Interpretation of Coefficients	7
	Probabilities, Odds, and Log Odds Revisited	9
	Transformations of the Predictor Variables	11
	Definition of Interaction	12
	Hierarchically Well-Formulated Models	15
	Product Term Analysis Versus Separate Logistic Regressions	17
2.	**Interactions Between Qualitative Predictors**	**18**
	Two-Way Interactions	18
	Three-Way Interactions	24
3.	**Interactions Between Qualitative and Quantitative/Continuous Predictors**	**30**
	Two-Way Interactions With a Qualitative Moderator Variable	30
	Two-Way Interactions With a Quantitative Moderator Variable	34
	Three-Way Interactions	37
4.	**Interactions Between Quantitative/Continuous Predictors**	**42**
	Two-Way Interactions	42
	Three-Way Interactions	44

Jaccard, James
Interaction effects in logistic regression
2005

digitalisiert durch:
IDS Luzern

5. Multicategory Models **46**
Ordinal Regression Models 47
Multicategory Nominal Variables 50

6. Additional Considerations **53**
Methods of Presenting Interaction Effects 53
Calculating Confidence Intervals 58
Calculating Coefficients of Focal Independent Variables at Different Moderator Values 59
The Bilinear Nature of Interactions for Continuous/Quantitative Variables 61
Partialling the Component Terms 63
Multiple Interaction Effects 63
Multicollinearity 65
Model Selection and Trimming 66
Transformations 67
Confounded Interactions 67
Computer Software 68

Notes **69**
References **69**
About the Author **70**