

# Contents

<i>List of Figures</i>	vii
<i>About the Author</i>	ix
<i>Preface to the Third Edition</i>	x
<b>1 Networks and Relations</b>	<b>1</b>
Relations and attributes	2
Analysis of network data	5
Interpretation of network data	7
An overview	9
<b>2 The Development of Social Network Analysis</b>	<b>11</b>
Sociometric analysis and graph theory	13
Interpersonal configurations and cliques	19
Towards formal models of structure	29
The Harvard breakthrough	34
Entry of the social physicists	38
<b>3 Analysing Relational Data</b>	<b>41</b>
Collecting relational data	41
Selection and sampling of relational data	43
Preparation of relational data	51
Organizing relational data	52
<b>4 Lines, Neighbourhoods and Densities</b>	<b>63</b>
Sociograms and graph theory	64
Density: ego-centric and socio-centric	69
A digression on absolute density	76
Community structure and density	78
<b>5 Centrality, Peripherality and Centralization</b>	<b>83</b>
Centrality: local and global	84
Centralization and graph centres	89
Bank centrality in corporate networks	94

<b>6</b>	<b>Components, Cores and Cliques</b>	<b>99</b>
	Components, cycles and knots	100
	The contours of components	107
	Cliques and their intersections	112
	Components and citation circles	118
<b>7</b>	<b>Positions, Sets and Clusters</b>	<b>121</b>
	The structural equivalence of points	122
	Clusters: combining and dividing points	124
	Block modelling with CONCOR	126
	Towards regular structural equivalence	134
	Corporate interlocks and participations	136
<b>8</b>	<b>Network Dynamics and Change Over Time</b>	<b>139</b>
	Modelling change in network structure	140
	Testing explanations	143
<b>9</b>	<b>Dimensions and Displays</b>	<b>147</b>
	Distance, space and metrics	148
	Principal components and factors	153
	Non-metric methods	156
	Advances in network visualization	162
	Elites, communities and influence	164
	<i>Notes</i>	173
	<i>Bibliography</i>	185
	<i>Index</i>	199