

Contents

Abbreviations	vi
Acknowledgements	vii
Introduction	ix
CHAPTER 1 Systems Design, People and Politics—An Overview	1
Introduction	1
Systems Design Traditions	3
Systems Design: Going 'Soft'	6
Technology: Determined or Determining?	8
People, Objectives and Interests	10
Politics in Organisations	15
Computers and Politics: PROMIS in Health Care	16
Conclusions	19
CHAPTER 2 Resistance to Change	20
Introduction	20
Perspectives on Technological Change	21
Overview	24
Computerphobia, Individuals and Resistance	25
Groups, Coalitions and Resistance	29
Organisational Resistance to Change	32
The Environment of Technological Change	36
Can 'Resistance' be Managed?	39
Conclusions	40
CHAPTER 3 Human resource planning for IT	42
Introduction	42
A Role for Personnel?	43
Planning for IT: An Overview	46
Recruitment and Selection	53
Management Development and IT	56
Training Problems	58
Equal Opportunities	64

CONTENTS

Redundancies	66
Developing Commitment	68
Conclusions	69
CHAPTER 4 Design and the Systems Analyst	70
Introduction	70
Tools, Techniques and Practices—The Inheritance	71
'Soft' Systems and the Checkland Methodology	75
User Involvement in Systems Design	78
Participative and Evolutionary Systems Development	84
Systems Prototyping	86
Developments: Towards an Integrated Approach	88
Conclusions	91
CHAPTER 5 Working with Computers—1. Designing Jobs and Work Organisation	92
Introduction	92
Job Design	93
Scientific Management-Based Approaches	94
Alternatives	97
Socio-Technical Systems Approaches	101
Work Teams	105
Control or Commitment?	108
Conclusions	110
CHAPTER 6 Working with Computers—2. Environment and Workstation	111
Introduction	111
Just a Bad Press?	112
Computer Hazards	114
The User and User-Friendliness	116
The User—Biological Factors	120
The User—Psychological and Other Factors	122
Task, Interface and Dialogue	123
Workstation Design	128
Environment Design	131
Conclusions	133
CHAPTER 7 Computer Technology and Industrial Relations	134
Introduction	134
Attitudes, Perceptions and Practices of Systems Analysts	135
Managerial Objectives	136

Management: Styles and Approaches	137
'Pragmatists', 'Opportunists' and Consultation	141
Trade Union Responses	145
New Technology Agreements	151
Towards a New Industrial Relations?	154
Conclusions	155
CHAPTER 8 Managing Implementation	157
Introduction	157
Defining Implementation	158
The Systems Analyst as Change Agent: An OD Approach	160
Participating in Change: STS, User Involvement and Implementation	166
A Political–Cultural Contingencies Approach	171
Conclusions	182
References and Guide to Further Reading	183
Index	205