CONTENTS

Executive Summary	vii
Preface	ix
Acknowledgements	xi
Introduction	1
Part I: The task analysis process	
1 The task analysis process	15
Part II: Task analysis techniques	
Introduction	35
2 Task data collection	41
3 Task description methods	81
4 Task simulation methods	147
5 Task behaviour assessment methods	169
6 Task requirements evaluation methods	217
Part III: Task analysis case studies	
Introduction	237
7 Balancing automation and human action through task analysi	s 241
8 A preliminary communications system assessment	253
9 A plant local panel review	267
10 A staffing assessment for a local control room	289
11 Task simulation to predict operator workload in a command s	system 301
12 Analysis of operator safety actions	311
13 Maintenance training	327
14 A method for quantifying ultrasonic inspection effectiveness	341
15 Operational safety review of a solid waste storage plant	355
16 A task analysis programme for a large nuclear chemical plant	t 363
Appendix: Summary of task analysis techniques	391
Glossary of Terms	403
Acronyms	409
Subject Index	413