

CONTENTS

| | |
|---|-----|
| 1. Risk Management Programs | 1 |
| 2. Screening Analysis Techniques | 15 |
| 3. Checklist Reviews | 30 |
| 4. Preliminary Hazards Analysis | 48 |
| 5. Safety Audits | 57 |
| 6. WHAT-IF Analysis | 75 |
| 7. Failure Modes and Effects Analysis | 91 |
| 8. Hazard and Operability Studies | 101 |
| 9. Fault Tree and Event Tree Analysis | 127 |
| 10. Chemical Plume Dispersion Analysis | 167 |
| 11. Explosion and Fire Analysis | 196 |
| 12. Assessment of Health Effects from Chemical Releases | 209 |
| 13. Quantified Risk Assessment | 221 |
| 14. Calculation of Human Reliability | 238 |
| 15. Training for Industrial Facilities | 253 |
| 16. Emergency Preparedness | 263 |
| 17. Risk Financing | 305 |
| 18. Computer Techniques | 316 |
| 19. Directions in Legislation and Regulation | 343 |
| Acronyms | 353 |
| Index | 356 |