

CONTENTS

Part One Introduction	1
1. Food, chemicals and risk analysis	3
Part Two Risk assessments	19
2. Food chemical risk assessment	21
3. Quantitative risk assessment	57
4. Biomarkers in epidemiological and toxicological nutrition research	87
5. Expert systems for hazard evaluation	109
6. Risk assessment: alternatives to animal testing	133
7. Molecular modelling	163
8. Estimation of dietary intake of food chemicals	195
9. Assessing risks to infants and children	219
10. Dietary chemoprevention in toxicological perspective	240
11. Prioritization of possible carcinogenic hazards in food	267
12. Threshold of regulation	296
13. An approach to understanding the role in human health of non-nutrient chemicals in food	317
Part Three Risk Management	329
14. The philosophy of food chemical risk management	331
15. Consumer perceptions	336
16. Decision aids	362
17. Risk evaluation, risk reduction and risk control	381
18. Risk Communication	399
19. Regulating food-borne risks	418
Part Four Conclusion	453
20. Integrated food chemical risk analysis	455
Index	467