

Contents

A colour plate appears between pages 440 and 441.

| | | | | | |
|--------------------------------|---|-----------|---|---|-----|
| List of Contributors | xi | CHAPTER 5 | Hazardous Environment Monitoring | 65 | |
| Preface | xiii | | <i>George M. Murray and David S. Lawrence</i> | | |
| CHAPTER 1 | Introduction | 1 | CHAPTER 6 | A Comprehensive Review of the Official OPCW Proficiency Test | 89 |
| | <i>Markku Mesilaakso</i> | | | <i>Jeanet Hendrikse</i> | |
| CHAPTER 2 | Sampling and Analysis in the Chemical Weapons Convention and the OPCW Mobile Laboratory | 7 | CHAPTER 7 | The OPCW Central Analytical Database | 133 |
| | <i>Stefan Mogl</i> | | | <i>Charles Nyanyira</i> | |
| CHAPTER 3 | On-site Analysis by the Inspection Team. Sampling, Analysis, Equipment, Procedures and Strategies | 33 | CHAPTER 8 | Analysis Strategy for Analysis of Chemicals Related to the Chemical Weapons Convention in an Off-site Laboratory | 151 |
| | <i>Sabine Krüger</i> | | | <i>Markku Mesilaakso</i> | |
| CHAPTER 4 | The OPCW Gas Chromatograph/Mass Spectrometer for On-site Analysis. Instrumentation, AMDIS Software and Preparations for Use | 51 | CHAPTER 9 | Sample Preparation for Analysis of Chemicals Related to the Chemical Weapons Convention in an Off-site Laboratory | 163 |
| | <i>Mieczyslaw Sokolowski</i> | | | <i>Marja-Leena Kuitunen</i> | |

CONTENTS

| | | | | | |
|-------------------|--|-----|------------------------|---|-----|
| CHAPTER 10 | Gas Chromatography in Screening of Chemicals Related to the Chemical Weapons Convention | 185 | CHAPTER 15 | Capillary Electrophoresis in Analysis of Chemicals Related to the Chemical Weapons Convention | 387 |
| | <i>Olli Kostianen</i> | | | <i>Jeremy E. Melanson and Camille A. Boulet</i> | |
| CHAPTER 11 | Gas Chromatography/Mass Spectrometry in Analysis of Chemicals Related to the Chemical Weapons Convention | 249 | CHAPTER 16 | Methods for the Retrospective Detection of Exposure to Toxic Scheduled Chemicals. Part A: Analysis of Free Metabolites | 403 |
| | <i>Eric R. J. Wils</i> | | | <i>R. M. Black and D. Noort</i> | |
| CHAPTER 12 | Liquid Chromatography/ Mass Spectrometry in Analysis of Chemicals Related to the Chemical Weapons Convention | 283 | CHAPTER 17 | Methods for Retrospective Detection of Exposure to Toxic Scheduled Chemicals. Part B: Mass Spectrometric and Immunochemical Analysis of Covalent Adducts to Proteins and DNA | 433 |
| | <i>R. M. Black and R. W. Read</i> | | | <i>D. Noort and R. M. Black</i> | |
| CHAPTER 13 | Nuclear Magnetic Resonance Spectroscopy in Analysis of Chemicals Related to the Chemical Weapons Convention | 321 | Index | | 453 |
| | <i>Markku Mesilaakso and Andreas Niederhauser</i> | | | | |
| CHAPTER 14 | Fourier Transform Infrared Spectroscopy in Analysis of Chemicals Related to the Chemical Weapons Convention | 353 | | | |
| | <i>Martin T. Söderström</i> | | | | |