

---

# Contents

## Chapter 1

Selection of Techniques Used in Food Analysis ..... 1

*Michael H. Tunick*

## Chapter 2

Statistical Assessment of Results of Food Analysis ..... 15

*Richard Brereton*

## Chapter 3

Analysis of Drinking Water ..... 31

*Marek Biziuk and Małgorzata Michalska*

## Chapter 4

Analysis of Proteins, Peptides, and Amino Acids in Foods ..... 59

*Edward Kolakowski*

## Chapter 5

Extraction and Analysis of Food Lipids ..... 97

*Robert A. Moreau*

## Chapter 6

Determination and Speciation of Trace Elements in Foods ..... 111

*Stephen G. Capar and Piotr Szefer*

## Chapter 7

Analysis of Vitamins for the Health, Pharmaceutical, and Food Sciences ..... 159

*Semih Ötleş and Yıldız Karaibrahimoglu*

## Chapter 8

Analysis of Carotenoids and Chlorophylls in Foods ..... 179

*Jae Hwan Lee und Steven J. Schwartz*

<b>Chapter 9</b>	
Analysis of Polyphenols in Foods.....	199
<i>Fereidoon Shahidi and Marian Naczk</i>	
<b>Chapter 10</b>	
Sensory Analysis of Foods .....	261
<i>Kannapon Lopetcharat and Mina McDaniel</i>	
<b>Chapter 11</b>	
Determination of Food Allergens and Genetically Modified Components .....	303
<i>Kristina M. Williams, Mary W. Trucksess, Richard B. Raybourne, Palmer A. Orlandi, Dan Levy, Keith A. Lampel, and Carmen D. Westphal</i>	
<b>Chapter 12</b>	
Determination of Pesticide Residues .....	329
<i>Steven J. Lehota and Katerina Mastovska</i>	
<b>Chapter 13</b>	
Determination of Pollutants in Foods .....	361
<i>Douglas G. Hayward</i>	
<b>Chapter 14</b>	
Analysis of Chemical Preservatives in Foods.....	379
<i>Adriaan Ruiter and Aldert A. Bergwerff</i>	
<b>Chapter 15</b>	
Measuring Radioactive Contaminants in Foods .....	403
<i>Andras Szabo and Sandor Tarjan</i>	
<b>Chapter 16</b>	
Rapid Analysis Techniques in Food Microbiology.....	415
<i>Francisco Diez-Gonzalez and Yildiz Karaibrahimoglu</i>	
<b>Index.....</b>	433