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	of fish; 3.2.1 Torry scale; 3.2.2 European Union Scheme; 3.2.3 Quality Index Method; 3.3 Pre-harvest factors affecting freshness; 3.4 Post- harvest factors affecting freshness 3.5 Environmental taints3.6 Extending freshness and shelf-life in fish; 3.7 Conclusions; References; 4 Sensometric and chemometric approaches to seafood flavour; 4.1 Introduction; 4.2 Sensometric approach to seafood flavour; 4.3 Chemometric approach to seafood flavour; 4.3.1 Experimental designs and optimization; 4.3.2 Pattern recognition; 4.3.3 Multivariate regression analysis; 4.3.3.1 Green; 4.3.3.2 Grilled fish; 4.3.3.3 Fried chicken; 4.3.3.4 Cooked fish, sweet, canned tuna, and roasted soy sauce; 4.3.4 Compound-sensory mapping; 4.4 Conclusions; References 5 Instrumental analysis of seafood flavour5.1 Introduction; 5.2 Isolation of volatile flavour compounds; 5.2.1 Headspace sampling; 5.2.1.1 Static headspace sampling; 5.2.1.2 Dynamic headspace sampling; 5.2.1.3 Solid phase microextraction; 5.2.1.4 Sorptive extraction; 5.2.2 Solvent extraction and distillation extraction; 5.2.2.3 High vacuum distillation extraction; 5.3. Instrumental analysis of volatile flavour compounds; 5.3.1 Gas chromatography 5.3.1.1 Gas chromatography 5.3.1.2 Multidimensional gas chromatography; 5.3.2.2 Selected ion monitoring mass spectrometry; 5.3.2.3 Chemical ionization mass spectrometry; 5.3.2.4 Negative chemical ionization mass spectrometry; 5.3.2.5 Time-of-flight mass spectrometry; 5.3.3 Electronic nose; 5.4 Conclusions; References; 6 Quality assessment of aquatic foods by machine vision, electronic nose, and electronic tongue; 6.1 Introduction; 6.2 Visual quality 6.2.1 Visual quality determination based on size and shape
Sommario/riassunto	The global market for seafood products continues to increase year by year. Food safety considerations are as crucial as ever in this sector, and higher standards of quality are demanded even as products are shipped greater distances around the world. The current global focus on the connection between diet and health drives growth in the industry and offers commercial opportunities on a number of fronts. There is great interest in the beneficial effects of marine functional compounds such as omega-3 polyunsaturated fatty acids. Seafoods are well-known as low calorie foods, and research continue