

1. Record Nr.	UNINA9910822989203321
Autore	Niroumand Hamed
Titolo	Design and construction of soil anchor plates / / Hamed Niroumand, Khairul Anuar Kassim
Pubbl/distr/stampa	Amsterdam, [Netherlands] : , : Butterworth-Heinemann, , 2016 ©2016
ISBN	0-12-420186-5
Descrizione fisica	1 online resource (214 pages) : illustrations, graphs
Disciplina	624.15
Soggetti	Anchorage (Structural engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.

2. Record Nr.	UNINA9910626012303321
Titolo	Annual Ultrasonic Industry Association Symposium : [proceedings]
Pubbl/distr/stampa	Piscataway, NJ, : Institute of Electrical and Electronic Engineers
ISSN	2162-3503
Disciplina	620.2
Soggetti	Ultrasonics Ultrasonic waves - Industrial applications Ultrasonics in medicine Ultrasons Ultrasons - Applications industrielles Ultrasons en medecine Periodicals. Conference papers and proceedings.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico

3. Record Nr.	UNINA9910974428603321
Titolo	Seafood safety // Committee on Evaluation of the Safety of Fishery Products, Food and Nutrition Board, Institute of Medicine ; Farid E. Ahmed, editor
Pubbl/distr/stampa	Washington, D.C., : National Academy Press, 1991
ISBN	9786610211968 9781280211966 1280211962 9780309537223 0309537223 9780585028248 0585028249
Edizione	[1st ed.]
Descrizione fisica	1 online resource (448 p.)
Altri autori (Persone)	AhmedFarid E
Disciplina	363.19/29
Soggetti	Seafood - Health aspects Seafood - Safety measures Seafood - Contamination Fishes - microbiology Food Contamination Food Inspection - standards Foodborne Diseases - prevention & control Food Supply - standards Marine Toxins Quality Control Shellfish Poisoning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	SEAFOOD SAFETY -- Copyright -- Preface -- Contents -- 1 Executive Summary -- OVERVIEW -- NATURE AND EXTENT OF PUBLIC HEALTH RISKS -- General -- Microorganisms and Parasites -- Extent of Risk -- Principal Conclusions -- Principal Recommendations -- Natural Toxins

-- Extent of Risk -- Principal Conclusions -- Principal Recommendations -- Chemical Residues -- Extent of Risk -- Principal Conclusions -- Principal Recommendations -- SCOPE AND ADEQUACY OF CURRENT SEAFOOD SAFETY PROGRAMS -- Regulatory Guidelines, Monitoring, and Inspection -- Principal Conclusions -- Principal Recommendations -- OPTIONS FOR REDUCING PUBLIC HEALTH RISKS -- Monitoring, Control, and Surveillance Measures -- Characteristics of Control Requirements -- Legislative Considerations -- Education and Information Measures -- Recommendations for Improved Inspection Strategies -- POTENTIAL IMPACT OF PROPOSED OPTIONS -- DIRECTION FOR DATA COLLECTION AND FUTURE RESEARCH -- 2 Seafood Production, Distribution, and Consumption -- ABSTRACT -- INTRODUCTION -- DEMOGRAPHICS OF THE SEAFOOD INDUSTRY -- FISHERY RESOURCES -- AQUACULTURE -- CONSUMPTION TRENDS -- ACTIVITIES IN OTHER COUNTRIES -- CONCLUSIONS AND RECOMMENDATIONS -- REFERENCES -- 3 Microbiological and Parasitic Exposure and Health Effects -- ABSTRACT -- INTRODUCTION -- PATHOGENS NATURALLY PRESENT IN MARINE OR FRESHWATER ENVIRONMENTS -- Naturally Occurring Marine Bacteria Associated with Human Disease -- *Vibrio cholerae* O1 -- Epidemiology and risk assessment -- Disease control -- Non-O1 *Vibrio cholerae* (V. cholerae of O Groups Other Than 1) -- Epidemiology and risk assessment -- Disease control -- *Vibrio parahaemolyticus* -- Epidemiology and risk assessment -- Disease control -- *Vibrio vulnificus* -- Epidemiology and risk assessment -- Disease control -- Other *Vibrio* Species -- *Aeromonas* -- *Plesiomonas*.
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Other Toxins -- CONCLUSIONS AND RECOMMENDATIONS -- NOTE -- REFERENCES -- 5 Occurrence of Chemical Contaminants in Seafood and

Variability of Contaminant Levels -- ABSTRACT -- INTRODUCTION -- TOXIC AGENTS AND POTENTIAL TYPES OF HEALTH EFFECTS -- Metals and Other Inorganics -- Specific Trace Metals -- Arsenic -- Cadmium -- Lead -- Mercury -- Selenium -- Organic Compounds -- Specific Organics -- Polychlorinated biphenyls (PCBs) -- Dioxins -- Polycyclic aromatic hydrocarbons (PAHs) -- Chlorinated hydrocarbon pesticides -- Contamination Problems in Aquaculture -- Sulfonamides -- Antibiotics -- Nitrofurans -- Conclusions -- Contaminants as a Result of Processing -- Nitrosamines -- Products of chlorination, bromination, and iodination -- Residues of ozonation -- Sulfites -- DATA ON THE DISTRIBUTION OF CHEMICAL CONTAMINATION -- Introduction -- National Status and Trends Program -- Federal Survey of PCBs in Atlantic Coast Bluefish -- National Contaminant Biomonitoring Program -- Regional Reports -- EVIDENCE FOR TRACE-METAL AND ORGANIC CONTAMINATION -- Molluscan Shellfish -- Trace Metals -- Arsenic (As) -- Cadmium (Cd) -- Lead (Pb) -- Mercury (Hg) -- Selenium (Se) -- Organics -- Polychlorinated biphenyls -- Polyaromatic hydrocarbons -- Chlorinated hydrocarbon pesticides -- Finfish -- Trace Metals -- Arsenic -- Cadmium -- Lead -- Mercury -- Selenium -- Organics -- Polychlorinated biphenyls -- Dioxins -- Chlorinated hydrocarbon pesticides -- Conclusions -- POTENTIAL OPPORTUNITIES FOR REDUCING EXPOSURES -- Analysis of Potential Benefits from Geographic Restrictions on Harvesting/Marketing -- Analysis of Potential for Reducing Population Exposure to Mercury from Swordfish and PCBs from Bluefish via Size Restrictions -- NOTES -- APPENDIX TO CHAPTER 5 -- PRESENT STATUS OF DOSE-RESPONSE DATA FOR TRACE METALS OF GREATEST POTENTIAL TOXICITY -- Arsenic -- Cadmium. Lead -- Mercury -- Selenium -- Conclusions -- REFERENCES -- 6 Chemical Health Risk Assessment-Critique of Existing Practices and Suggestions for Improvement -- ABSTRACT -- INTRODUCTION -- BROAD CATEGORIZATION OF MECHANISMS OF DIFFERENT ADVERSE EFFECTS AND IMPLICATIONS FOR DOSE-RESPONSE RELATIONSHIPS -- Traditional Acute Toxicity -- Traditional Chronic Toxicity -- Molecular Biological (Stochastic Process) Diseases -- Chronic Cumulative Conditions -- CRITIQUE OF RISK ASSESSMENTS USED IN FORMULATING CONTAMINANT GUIDELINES/TOLERANCES FOR SPECIFIC CHEMICALS AND SUGGESTIONS... -- Polychlorinated Biphenyls (PCBs) -- Background -- FDA Assessment of Costs and Risks for PCBs in Fish -- Suggestions for Improved Analysis -- Methylmercury -- FDA Risk Assessment and Current Regulations -- Available Data on Blood Levels in the U.S. Population -- Methylmercury dose, blood levels, and population risks -- Conclusions and Recommendations for Changes in Risk Assessment Practices -- ESTIMATING HUMAN INTAKE OF CONTAMINANTS FROM SEAFOOD AND SOME ASSOCIATED RISKS -- Review of Data Bases Available for Estimating Exposures -- FDA Total Diet Study -- FDA Pesticide Monitoring Files -- National Marine Fisheries Service Survey -- Fisheries of the United States, 1987 -- Exposures from Sport, Subsistence, and Tribal Fishing -- Exposures from Commercial Seafood -- Dietary Intake of Seafood of Various Species -- Inorganic Contaminant Exposures and Suggested Acceptable Intake -- Use of NMFS Survey of Trace-Element Data -- Antimony -- Arsenic -- Cadmium -- Chromium -- Lead -- Mercury -- Selenium -- Estimates Of Cancer Risks From Organic Contaminants -- Comparison of Imported and Domestic Seafood -- Exposures from Sport, Subsistence, and Tribal Fishing -- Puget Sound Contaminated Recreational Fish Study -- Regional Studies of Contaminants -- Atlantic Coast Bluefish Contamination.

Southern California Sport Fishery -- Conclusions -- Consumer Information and Labeling Programs, and Fishing Advisories -- PROBABLE HEALTH RISKS FROM FISH AND SHELLFISH CONSUMPTION-RECOMMENDATIONS FOR RESEARCH -- Classic Acute and Chronic Toxic Effects -- Reproductive Effects -- Carcinogenesis -- Chronic Cumulative Toxic Effects -- CONCLUSIONS AND RECOMMENDATIONS -- Significance of the Risk -- Potential for Control -- Performance of Current Federal Regulatory Authorities in Assessing and Managing Risks -- Data Gathering for Risk and Control Analysis -- Risk Assessment Practices -- Risk Management -- NOTES -- REFERENCES -- 7 Statistical Sampling Issues in the Control of Seafood Hazards -- ABSTRACT -- INTRODUCTION -- SURVEILLANCE AND COMPLIANCE SAMPLING -- ATTRIBUTES AND VARIABLES SAMPLING PLANS -- Two-Class Attributes Plans -- Three-Class Attributes Plans -- Most Probable Number (MPN) -- SURVEY OF CURRENT SAMPLING PLANS -- Salmonella Sampling Plans -- Staphylococcus aureus Plans -- Plans for Fish, Fresh or Frozen -- Fish-Adulteration by Parasites -- Crabmeat-Adulteration with Filth Containing Escherichia coli -- Langostinos-Adulteration by Bacterial Contamination -- Canned Salmon-Adulteration Involving Decomposition -- Shrimp - Adulteration Involving Decomposition -- CONCLUSIONS AND RECOMMENDATIONS -- NOTES -- REFERENCES -- 8 Seafood Surveillance and Control Programs -- ABSTRACT -- INTRODUCTION -- RESPONSIBILITIES AND PROGRAMS OF THE FEDERAL GOVERNMENT -- Standards and Guidelines -- Tolerances -- Action Levels -- Seafood Deemed Injurious to Public Health -- National Shellfish Sanitation Program -- Inspection and Enforcement -- U.S. Environmental Protection Agency -- U.S. Food and Drug Administration -- Import control program -- Routine and periodic surveys for residual chemicals -- National Marine Fisheries Service -- Training and Educational Programs. Public Health Monitoring.

Sommario/riassunto

Can Americans continue to add more seafood to their diets without fear of illness or even death? Seafood-caused health problems are not widespread, but consumers are at risk from seafood-borne microbes and toxins--with consequences that can range from mild enteritis to fatal illness. At a time when legislators and consumer groups are seeking a sound regulatory approach, Seafood Safety presents a comprehensive set of practical recommendations for ensuring the safety of the seafood supply. This volume presents the first-ever overview of the field, covering seafood consumption patterns, where and how seafood contamination occurs, and the effectiveness of regulation. A wealth of technical information is presented on the sources of contamination--microbes, natural toxins, and chemical pollutants--and their effects on human health. The volume evaluates methods used for risk assessment and inspection sampling.
