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Nota di contenuto	Intro -- MECHANISMS OF CADMIUM TOXICITY TO VARIOUS TROPHIC SALTWATER ORGANISMS -- MECHANISMS OF CADMIUM TOXICITY TO VARIOUS TROPHIC SALTWATER ORGANISMS -- CONTENTS -- PREFACE -- Chapter 1 MECHANISMS OF CADMIUM TOXICITY TO VARIOUS TROPHIC SALTWATER ORGANISMS -- 1. Introduction -- Chapter 2 SOURCES AND PATHWAYS OF CADMIUM IN THE ENVIRONMENT -- 2.1. Natural Occurrences -- 2.2. Anthropogenic Sources -- 2.3. Status of Cadmium Pollution in Estuarine and Coastal Areas -- 2.4. Speciation and Bioavailability of Cadmium in Aquatic Environment -- Chapter 3 TOXICITY OF WATERBORNE CADMIUM TO SALTWATER AQUATIC ORGANISMS -- 3.1. Acute Toxicity -- 3.2. Sensitivity of Species -- 3.3. Chronic Toxicity -- 3.4. Bioaccumulation (Internal Metal Exposure) -- 3.5. Mechanisms of Cadmium Toxicity -- 3.5.1. Metal Accumulation Patterns -- 3.5.2. The Role of Metal-Binding Proteins, Metallothioneins (MTs) -- 3.5.3. Critical Body Residue (CBR) -- 3.5.4. Links to Toxicity -- 3.5.5. Species-Specific Effects -- Crustaceans -- Molluscs -- Fish -- Polychaeta -- Chapter 4 TOXICITY OF DIETARY CADMIUM TO AQUATIC ORGANISMS -- 4.1. Phytoplankton Exposed to Cadmium -- 4.1.1. Toxic Values of Microalgae Exposure to Cadmium -- 4.1.2. Algal Cadmium Burden -- 4.1.3. Cadmium Removed by Unicellular Microalgae -- 4.1.4. Mechanism of Cadmium to Microalgae -- 4.2. Dietary Toxicity -- 4.3. Mechanisms of Dietary Cadmium -- Chapter 5

Sommario/riassunto

The authors summarise basic and experimental knowledge on sources and toxicity of cadmium and overview mechanisms of toxicity and detoxification for various trophic aquatic organisms exposed to cadmium. It will assist in ecological risk assessments involving cadmium toxicity.
