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Nota di contenuto	In Situ Bioremediation -- Copyright -- Preface -- Contents -- Executive Summary -- PRINCIPLES OF BIOREMEDIATION -- THE CURRENT PRACTICE OF BIOREMEDIATION -- Engineered Bioremediation -- Intrinsic Bioremediation -- Integration of Bioremediation with Other Technologies -- EVALUATING IN SITU BIOREMEDIATION -- Measurements of Field Samples -- Experiments Run in the Field -- Modeling Experiments -- Limitations Inherent in Evaluating In Situ Bioremediation -- CONCLUSIONS: FUTURE PROSPECTS FOR BIOREMEDIATION -- Recommended Steps In Research -- Recommended Steps in Education -- 1 Introduction -- 2 Principles of Bioremediation -- THE ROLE OF MICROBES IN BIOREMEDIATION -- How Microbes Destroy Contaminants -- Basics of Microbial Metabolism -- Variations on Basic Metabolism -- Microbial Nutritional Requirements for Contaminant Destruction -- How Microbes Demobilize Contaminants -- Indicators of Microbial Activity -- Chemical Changes -- Adaptation by Native Organisms -- Growth of Predators -- Complicating Factors -- Unavailability of Contaminants to the Organisms -- Toxicity of Contaminants to the Organisms -- Presence of Multiple Contaminants and Natural Organic Chemicals -- Incomplete Degradation of Contaminants -- Inability to Remove Contaminants to

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