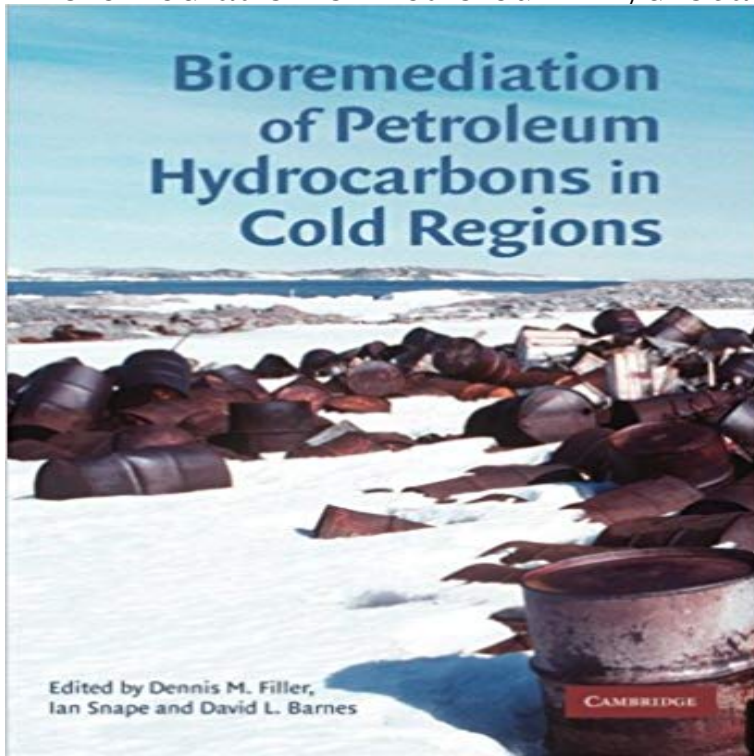


## Bioremediation of Petroleum Hydrocarbons in Cold Regions



This guide to bioremediation in cold regions is designed to aid environmental practitioners, industry, and regulators in the remediation of petroleum spills and contaminated sites in cold regions. Remediation design and technology used in temperate climates does not necessarily work in cold climates, and cleanup takes longer due to shorter treatment seasons, sub-freezing temperatures, ground freezing and thawing, and limited bioactivity. Environmental engineers and scientists from eight countries working in the polar regions combine their experiences and expertise with petroleum contamination to write this book. It contains in-depth discussions on regulations, freezing and frozen ground, identification and adaptations of cold-tolerant bacteria, contaminant transport in cold soils and permafrost, temperature effects on biodegradation, analytical methods, treatability studies, and nutritional requirements for bioremediation. Emphasis is given to practical and effective bioremediation methods for application in cold regions. Emerging technologies are also discussed.

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