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Nota di contenuto	Frontmatter -- Preface -- Contents -- Contributing authors -- 1. Methane seeps in a changing climate / Krause, Stefan / Niemann, Helge / Treude, Tina -- 2. Hydrocarbon seep ecosystems / Joye, Samantha B. / Kleindienst, Sara -- 3. Mud volcanoes as dynamic sedimentary phenomena that host marine ecosystems / Menapace, Walter / Kopf, Achim / Zabel, Matthias / Beer, Dirk de -- 4. The shallow submarine hot vent system off Milos (Greece) - a natural laboratory for the study of hydrothermal geomicrobiology -- 5. Life in serpentinite hosted alkaline springs / Schrenk, Matthew O. -- 6. Ecosystems of cold seeps in the South China Sea / Niu, Mingyang / Liang, Qianrong / Feng, Dong / Wang, Fengping -- 7. Life at the hydrothermal vent field of the Southwest Indian Ridge / Ding, Jian / Zhang, Yu -- 8. Microbial nitrogen cycling processes at submarine hydrothermal vents / Wankel, Scott D. / Bourbonnais, Annie / Charoenpong, Chawalit -- 9. Assessing metabolic activity at methane seeps: a testing ground for slow growing environmental systems / Marlow, Jeffrey / Hatzenpichler, Roland -- 10. Multiplication is vexation: a genomic perspective on cell division and DNA replication in the large sulfur bacteria / MacGregor, Barbara J. / Flood, Beverly / Bailey, Jake / Kanke, Matthew -- 11. Life in multiextreme environments: cross-stress response in Thermococcales / Zhao, Weishu / Xiang, Xiao -- Index

Sommario/riassunto

Vents and seeps are the epitome of life in extreme environments, but there is much more to these systems than just black smokers or hydrocarbon seeps. Many other ecosystems are characterized by moving fluids and this book provides an overview of the different habitats, their specific conditions as well as the technical challenges that have to be met when studying them. The book provides the current state of the art and will be a valuable resource for everybody that has an interest in such environments.
