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Nota di contenuto	Preface -- Chapter 1. Nanosponges for carbon dioxide sequestration (Diana Azevedo) -- Chapter 2. Absorbents, media, and reagents for carbon dioxide capture and utilization (Khairiraihanna Johari) -- Chapter 3. Metal oxides for carbon dioxide capture (Lakshminarayana Bhatta) -- Chapter 4. Hybrid membranes for carbon capture (Mohammad Mesbah) -- Chapter 5. Ionic liquids for carbon dioxide capture (Mohammad Mesbah) -- Chapter 6. Carbon sequestration in alkaline soils (Qaiser Hussain) -- Chapter 7. Metal organic frameworks for carbon capture (Shanmuga Selvanathan) -- Chapter 8. Ionic liquids for carbon dioxide capture (Mohammad Reza Rahimpour) -- Chapter 9. Methods for the recovery of CO2 from chemical solvents (Mohammad Reza Rahimpour) -- Chapter 10. Cryogenic CO2 capture (Mohammad Reza Rahimpour).
Sommario/riassunto	This book presents materials and physical methods for carbon dioxide sequestration. Materials include nanosponges, titanium oxide/zeolite

hybrids, classical absorbents, metal oxides, ionic liquids, alkaline soils and metal organic frameworks. Methods include cryogenic capture, adsorption, solvent dissolution and soil sequestration.