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Nota di contenuto	Determining and Understanding N-H Bond Strengths in Synthetic Nitrogen Fixation Cycles -- Dinitrogen Fixation by Transition Metal Hydride Complexes -- Reactivity of Group 5 Element Dinitrogen Complexes and N2-Derived Nitrides -- Functionalization of N2 by Mid to Late Transition Metals via N–N Bond Cleavage -- Synthetic Nitrogen Fixation with Mononuclear Molybdenum(0) Phosphine Complexes: Occupying the trans-Position of Coordinated N2 -- Catalytic Nitrogen Fixation Using Molybdenum–Dinitrogen Complexes as Catalysts -- Computational Approach to Nitrogen Fixation on Molybdenum–Dinitrogen Complexes -- Sulfur-Supported Iron Complexes for Understanding N2 Reduction -- Catalytic Transformations of Molecular Dinitrogen by Iron and Cobalt–Dinitrogen Complexes as Catalysts.
Sommario/riassunto	This volume presents a review of recent developments in nitrogen fixation using transition metal–dinitrogen complexes in the last decade. The authors are international experts in the corresponding field and each chapter discusses their latest achievements in the preparation of various transition metal–dinitrogen complexes and their reactivity. This volume will be helpful to researchers, teachers, and students who are interested in innovative and sustainable chemistry.