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Nota di contenuto	SUSTAINABLE CATALYSIS: Challenges and Practices for the Pharmaceutical and Fine Chemical Industries -- Contents -- Foreword -- Preface -- Contributors -- Abbreviations -- 1 Catalytic Reduction of Amides Avoiding LiAlH ₄ or B ₂ H ₆ -- 1.1 INTRODUCTION -- 1.2 AMIDES -- 1.3 IMPORTANCE OF AMIDE REDUCTIONS IN PHARMACEUTICAL SYNTHESIS -- 1.4 HETEROGENEOUS AMIDE HYDROGENATION -- 1.5 HOMOGENEOUS AMIDE HYDROGENATION -- 1.5.1 Hydrogenation of Primary Amides -- 1.5.2 Hydrogenation of Secondary Amides -- 1.5.3 Tertiary Amides -- 1.5.4 Scope of Ru/Triphos Amide Hydrogenation -- 1.5.5 Hydrogenation of Diacids in the Presence of Amines -- 1.5.6 Homogeneous Amide Hydrogenation Mechanism -- 1.5.7 Amide C - N Cleavage by Hydrogenation -- 1.6 HYDROSILATION -- 1.6.1 Rhodium-Catalyzed Reduction of Amides Using Silanes -- 1.6.2 Ruthenium-Catalyzed Reduction of Amides Using Silanes -- 1.6.3 Platinum-Catalyzed Reduction of Amides Using Silanes -- 1.6.4 Molybdenum-Catalyzed Reduction of Amides Using Silanes -- 1.6.5 Indium Bromide-

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