

This book provides a review of worldwide developments in ammonia synthesis catalysts over the last 30 years. It focuses on the new generation of Fe<sub>1-x</sub>O based catalysts and ruthenium catalysts – both are major breakthroughs for fused iron catalysts. The basic theory for ammonia synthesis is systematically explained, covering topics such as the chemical components, crystal structure, preparation, reduction, performance evaluation, characterization of the catalysts, the mechanism and kinetics of ammonia synthesis reaction. Both theory and practice are combined in this presentation, with emphasis on the research methods, application and exploitation of catalysts. The comprehensive volume includes an assessment of the economic and engineering aspects of ammonia plants based on the performance of catalysts. Recent developments in photo-catalysis, electro-catalysis, biocatalysis and new uses of ammonia are also introduced in this book. The author, Professor Huazhang Liu, has been engaged in research and practice for more than 50 years in this field and was the inventor of the first Fe<sub>1-x</sub>O based catalysts in the world. He has done a lot of research on Fe<sub>3</sub>O<sub>4</sub> based- and ruthenium based-catalysts, and has published more than 300 papers and obtained 21 patents during his career.

Contents: Historical Evolution of Catalysts for Ammonia Synthesis  
Catalytic Reaction Mechanisms of Ammonia Synthesis  
Chemical Composition and Structure of Fused Iron Catalysts  
Preparation of Fused Iron Catalysts  
Reduction of Fused Iron Catalysts  
Ruthenium Based Ammonia Synthesis Catalysts  
Performance Evaluation and Characterization of Catalysts  
Performance and Application of Catalysts  
Effect of Catalyst Performance on the Economic Benefits of Catalytic Process  
Innovation and Speculation  
Readership: Researchers in academia and industry working on catalysts for ammonia synthesis.

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catalysts. This title explains the basic theory for ammonia synthesis. of iron ammonia synthesis catalyst has been proposed. Two model (1) Liu, H. Z. Ammonia Synthesis Catalysts: Innovation and Practice;.

In recognizing the gap between current technologies (best practices or enable innovation is warranted to continue advances in new technologies. progress for: (1) syngas shift catalysts; (2) ammonia synthesis catalysts; and (3) so-called.

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