

CONTENTS

	Page
Preface	vi
1. The Influence of Chain Length in Hydrocracking and Hydroisomerization of <i>n</i> -Alkanes	1
2. Catalyst Effects on Yields and Product Properties in Hydrocracking	28
3. Raffinate Hydrocracking with Palladium-Nickel-Containing Synthetic Mica-Montmorillonite Catalysts	52
4. Hydrocracking Condensed-Ring Aromatics Over Nonacidic Catalysts	65
5. Conversion of Complex Aromatic Structures to Alkylbenzenes	82
6. Diesel and Burner Fuels from hydrocracking in situ Shale Oil	99
7. Synthoil Process and Product Analysis	111
8. Coal Liquefaction by Rapid Gas Phase Hydrogenation	123
9. Consideration of Catalyst Pore Structure and Asphaltenic Sulfur in the Desulfurization of Resids	136
10. The Structural Form of Cobalt and Nickel Promoters in Oxidic HDS Catalyst	150
Index	165