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Modern Applications of High Throughput R&D in Heterogeneous Catalysis

About the ebook

This eBook covers the application of high throughput R&D to both fundamental and applied catalysis including catalyst preparation, characterization, and testing in various reactor types. Chapters include topics ranging from optimizations of established industrial catalysts, to the discovery of novel catalytic materials.

Contents

- ▶ High Throughput Experimentation Applied in the Field of Technical Catalysis: Past, Present, Future
- ▶ Discovery and Optimization of Coking and Sulfur Resistant Bi- Metallic Catalyst for Cracking JP-8: From Thin Film Libraries to Single Powders
- ▶ Parallel Fixed Bed Microreactors for High-Throughput Screening with Special Focus on High
- ▶ Corrosion Resistance and New Deacon Catalysts for Chlorine Production
- ▶ Heterogeneous Catalysis High Throughput Workflow: A Case Study Involving Propane Oxidative Dehydrogenation
- ▶ Realistic Catalyst Testing in High-Throughput Parallel Small- Scale Reactor Systems
- ▶ Interrogative Kinetics: A New Methodology for Kinetic Mapping of Emergent Catalytic Properties
- ▶ Global Challenges in Chemicals and Energies - Standardization and Acceleration of Catalysis R & D
- ▶ Development of Platinum-Free Catalysts for PEM Fuel Cell Technology

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