



# **Palladium as a catalyst for selective hydrogenation: Fundamentals and applications**

*Maryam Takht Ravanchi, Saeed Sahebdehfar*

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The selective hydrogenation of multi-unsaturated hydrocarbons, especially in pyrolysis products, to corresponding mono-olefins is a widely exploited way for large-scale production of polymer-grade olefins and also upgrading of gasoline blending stocks. Thermodynamic and/or kinetic parameters could be responsible for directing the reaction network to a special product. This book deals with application of palladium-based catalysts in selective hydrogenation of alkynes and dienes. It covers both fundamental and applied aspects of selective hydrogenation with special emphasis on the selectivity problem. The book is organized in a rational way beginning with the electronic structure of palladium, followed by its catalytic properties, interaction with supports and transport limitations and commercial applications.

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