

1. Record Nr.	UNINA9910346777203321
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Titolo	Numerical Modeling of Stagnation Flows over Porous Catalytic Surfaces
Pubbl/distr/stampa	KIT Scientific Publishing, 2016
ISBN	1000049629
Descrizione fisica	1 electronic resource (XII, 204 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In this book, stagnation flows on a catalytic porous plate is modeled one-dimensionally coupled with multi-step surface reaction mechanisms and molecular transport (diffusion and conduction) in the flow field and in the porous catalyst. Internal and external mass transfer limitations as well as possible reaction routes in the catalyst are investigated for CO oxidation, WGS reaction, partial and steam reforming of methane over Rh/Al ₂ O ₃ .