ELSEVIER

Catalysis Today 60 (2000) 1

CATALYSIS TODAY

www.elsevier.com/locate/cattod

Preface

This issue "Reactor Engineering and Catalytic Technologies" is based on the papers presented in Session 12 of EUROPACAT-IV, which was held in Rimini, Italy, in September 1999. The issue collects selected fundamental studies as well as more industrially oriented contributions from Europe, Asia and South America.

The papers have been grouped into three main categories: (1) structured catalysts and reactors, (2) kinetic and mechanistic studies, and (3) novel processes. They cover many fields of research, from advanced reactor modelling to material science and they offer an overview on how the methods of chemical engineering provide the field of catalysis with new solutions for improving existing catalytic technologies and developing novel processes. For instance, when catalysts are deposited onto structured supports, the catalytic function can be coupled to additional functions such as heat transfer, filtering, gas–liquid mixing, and new potentialities emerge. Kinetic and mechanistic studies can greatly benefit from unsteady state analysis or novel designs for laboratory scale reactors. Novel processes arise from the exploitation of non-conventional methods of activation of the reaction (e.g. UV radiation, ionization/ozonization) and advanced reactor concepts.

We would like to acknowledge the great help provided by the reviewers, and also the efforts of the authors in addressing the reviewers' comments in order to reach a high quality product.

Pio Forzatti, Alessandra Beretta
Dipartimento di Chimica Industriale e Ingegneria Chimica, Politecnico di Milano
Piazza Leonardo da Vinci 32
20133 Milano, Italy

Iacovos A. Vasalos
Chemical Process Engineering Research Institute (CPERI) and Department of Chemical Engineering
University of Thessaloniki, PO Box 361, 57001
Thermi-Thessaloniki, Greece

0920-5861/00/$ – see front matter
PII: S0920-5861(00)00310-2