

R&D Management of Chemical Engineering Processes versus Complex Socio-Ecological System

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Abstract

It has been recognized that the R&D Management has had varying effects at macro and at micro level. For example:

- modifies mutual relation among different of industries,
- changes labor market,
- alters the competitive position of EU, USA, Japan and China
- affects the competitiveness of businesses
- upgrades design of equipment.

The extent of the effects of technological progress has aroused growing interest in the study of R&D phenomena. The R&D processes have been studied by all the disciplines having to do with socioeconomic phenomena: sociology, economics, industrial economics, and management. Thanks to this research, our understanding of the nature of the R&D process has improved notably. However, ecological aspects attract particular attention lately. The paper concentrates on relations of chemical engineering and ecological tasks linked to prohibitively complex systems.