

Demonstration plant for new FCC technology yields increased propylene. Fujiyama, Yuichiro; Redhwi, Halim H.; Aitani, Abdullah M.; Saeed, M. Rahat; Dean, Christopher F. Nippon Oil Corp., Yokohama, Japan. Oil & Gas Journal (2005), 103(36), 54-58. Publisher: PennWell Corp., CODEN: OIGJAV ISSN: 0030-1388. Journal written in English. CAN 143:407948 AN 2005:1133701 CAPLUS (Copyright (C) 2008 ACS on SciFinder (R))

Abstract

A novel fluid catalytic cracking (FCC) process, that increased the propylene prodn., was proved in a pilot demonstration plant. Compared to conventional FCC processes the new process operated with a higher catalyst to oil ratio and at higher temps. which resulted in competing cracking reactions of thermal and catalytic cracking. The short reaction time suppressed successive reactions that consumed olefins.