hydroconvertion of n - hexan on modified pentasil containing catalysis

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Pt- loaded H-ZSM-5 catalyst are classified under bifunctional acid-zeolite catalysts . the H-ZSM-5 (pentasil) zeolite is characterized by its large number of acid sites which acquire high strength .morever , this zeolite possesses tridimentional channels with internet sinusoidal structure. Moreover , platinum proved its superiority as ahdrogenation dehydrogenation metal. the combinations of H-ZSM-5 zeolite (pentasil type) with pt motivated preparing and testing some series of -catalysts including such combinations for the hydroconversion of n hexance.therefore, the acid sits numder and strength were modified via various dealumination techniques namely dealmination using asolution of the chelating agent (ethylendiamineteraacetic acid, EDTA)doping of HF solution in order to contain3.0 wt% F hydrothermal treatment using steam at atemperature of 500 c in presence of NH3 and N2 d acombination of treatments (a) and (b) as well as acombination of treatment (b)abd (c).