

Principles Of Instruction For Nco 001b

the aim of this volume is to provide scientists with a comprehensive summary of new research areas in the activation of carbon monoxide as one of the most reactive molecules and in its applications in order to understand the variety of the reactivity of co a quantum chemical approach helps the reader to understand the binding state of co to the solid surface chapter 1 the structure of the adsorbed co can be better understood by examining its reactivity towards single crystals in the absence and in the presence of promoters chapter 2 the first approach in the reactivity study is that of studying catalytic activity of single crystals and structure sensitivity which are summarized in chapter 3 one of the most prominent effects in the co activation process is ascribed to the presence of additives promoters which in a real catalyst system are far more complicated than on single crystal surfaces chapter 4 the original fischer tropsch process applied fused iron or cobalt catalysts which were suitable for producing mainly straight chain hydrocarbons the two most important processes involving co activation the new ft process and alcohol formation are discussed in chapters 5 and 7 an important type of catalyst the bimetallic catalysts is discussed in chapter 6 the

role of hydrogen as one of the most frequently used partners in co activation is discussed in chapter 8 the field of production of specialty chemicals is an excellent example of the homogeneous catalytic activation of co chapter 9 in chapter 10 an overview is given of the industrial applications of co chemistry and these are illustrated by working processes the final chapter gives the reader some hints about future progress in the field

includes entries for maps and atlases

this dissertation presents an outlines my investigations of static and dynamic properties of adsorbed cyanide cn and isocyanate nco species as well as some of their chemistries surface bound cn containing species have not previously been studied extensively partially due to the inapplicability of fundamental e beam based surface analysis techniques for investigations i had the opportunity in my studies to employ multiple surface probing techniques i e has xps nexafs tpd and rairs to compile and cross examine information from cn nco and derived species adsorbed on the cu 001 surface while angle resolved he atom scattering has was employed to identify and investigate the ordered superstructure of cn cu 001 surfaces tof has was employed to investigate its dynamic properties the cn cu 001 surface induced unprecedented simultaneous coherent he diffraction with a large classical multiphonon backscattered he intensity a superstructure is implied that contains both rigidly bound cn species which maintain the long range c 10x6 translational symmetry together with bound highly dynamic cn species that exhibit large thermally induced displacements the nexafs measurements suggest multiple spatial binding configurations for the adsorbed cn moieties in addition tpd spectra of c2n2 desorption from cn cu 001 surface were analyzed using my newly developed method to determine the activation energies for desorption as a function of cn coverage there are two reactions of nco species examined in my studies the first is the newly discovered mutual reaction between nco species this type of interaction had not been seen before as it is essentially difficult to prepare pure nco metallic surfaces copper was chosen as a substrate as hnco exposures of cu 001 at rt followed by spontaneous h2 desorption do produce nco only surfaces a thermal treatment of the surface at 573k leads to a bimolecular decarboxylation of nco leaving a carbodimide species ncn on the surface the sp hybridized linear ncn

moieties which are bound nearly parallel to the substrate show high thermal stability the second reaction of nco which i have studied is its oxidation in particular the effect of cn coadsorbrates on the oxidation of nco was studied it was found that the presence of cn catalyzes a dissociation reaction of nco species on cu 001

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