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## TRANSITION METAL COMPLEXES WITH FLUORINATED AND SF<sub>5</sub>-SUBSTITUTED CARBON LIGANDS

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The reactions of various cyclopentadienyl-carbonyl-metal anions, cp M(CO) $_n$ , and carbonyl-metal anions, M(CO) $_m$ , with perfluorinated and SF $_5$ -substituted mono- and bifunctional acidchlorides (CloC-CF $_2$ -COCl, SF $_5$ -CH $_2$ -COCl and the new compound SF $_5$ -CF $_2$ -COCl) has been studied. The stability of the different products  $L_n$ -M-CO-R and  $L_n$ -M-R depends on the nature of the metal framework and the substituent R. In the case of (CO) $_4$ CO( $_1$ -CO-CF $_2$ -CO)CO(CO) $_4$ CO extrusion takes place in several steps and (CO) $_3$ CO( $_1$ -CF $_2$ )( $_1$ -CO)CO(CO) $_3$  is formed in high yield. In contrast to the behaviour of the cobalt compound, (CO) $_5$ Mn( $_1$ -CO-CF $_2$ )Mn(CO) $_5$  does not eliminate a second CO molecule.