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Autore	Uneyama Kenji
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Nota di contenuto	Organofluorine Chemistry; Contents; Preface; 1 Fundamentals in Organic Fluorine Chemistry; 1.1 Some physical properties of organic fluorine compounds; 1.1.1 Effect of the fluorine atom on the molecular orbital energy levels of organic molecules and refractive index; 1.1.2 Boiling points; 1.1.3 Miscibility; 1.1.4 Lipophilicity; 1.1.5 Gas solubility; 1.1.6 Surface tension; 1.1.7 Summary; 1.2 Electronic effect; 1.2.1 Electronic effects of the fluorine atom: insight from Hammett substituent constants; 1.2.2 Electronic effects on acidity, bond length, and bond energy of fluoroorganic molecules 1.2.3 Halogen bonding 1.2.4 Electronic effect on the destabilization of carbonyl and imono groups; 1.2.5 pi-pi Stacking of fluoroaromatics; 1.2.6 Increased p-character (Bent's rule) and low-lying LUMO in carbon-fluorine bonding orbitals; 1.2.7 Negative hyperconjugation; 1.2.8 Electron-donating effect (stabilization of carbocation); 1.2.9 Effect of fluorine substituents on the structure, stability, and reactivity of fluoroalkyl radicals; 1.3 Steric effects of fluorine substituents; References; 2 Unique Reactions Induced by Fluorine; 2.1 Nucleophilic substitution on fluoroaromatic rings

2.2 SN2' reactions of alkenes bearing a trifluoromethyl group
2.3 Nucleophilic substitution on the gem-difluoromethylene double bond;
2.4 Single electron transfer reaction of perfluoroalkyl halides; 2.5
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Benzeneselenenyl fluoride (PhSeF); 2.5.6 tert-Butyl and methyl
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5.1 Ligands with fluorine-substituted aryl groups

Sommario/riassunto

The replacement of hydrogen with fluorine in organic molecules can
profoundly influence their chemical and physical properties, leading to
a range of compounds with highly desirable properties. These
molecules are of interest across the wide spectrum of industrial and
academic organic chemistry, so that organofluorine chemistry is
economically highly important. Organofluorine Chemistry will help
chemists to develop a systematic knowledge of the chemistry of
fluorine with a view towards its application in the design of new
reactions and syntheses, and the creation of novel fluorinated mo

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