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Altri autori (Persone)	ChanTak-Hang <1941-> LiChao-Jun <1963->
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction. The structure and forms of water ; Properties of water ; Solvation ; Hydrophobic effect ; Salt effect Water under extreme conditions Alkanes. Oxygenation of alkanes ; Halogenation of alkanes ; Formation of carbon-carbon bonds ; D/H exchange of alkanes in waterAlkenes. Reduction ; Electrophilic additions ; Radical reactions of alkenes ; Carbene reactions ; Alkene isomerization ; Transition-metal catalyzed C-C formation reactions ; Olefin metathesis ; Reaction of allylic C-H bond Alkynes. Reaction of terminal alkynes ; Additions of C [triple bar] C bonds ; Transition-metal catalyzed cycloadditions ; Other reactions Alcohols, Phenols, Ethers, Thiols, and Thioethers. Oxidation of alcohols ; Substitutions/elimination ; Addition of alcohols to C=O bonds: esterification and acetal formations ; Reaction of ethers and cyclic

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	ethers ; Other reactions Organic halides. General ; Reduction ; Elimination reactions ; Nucleophilic substitutions ; Reductive coupling ; Carbonylation of organic halides ; Transition-metal catalyzed coupling reactions Aromatic compounds. General ; Substitution reactions ; Oxidation reactions ; Reductions Aldehdye and ketones. Reduction ; Oxidation ; Nucleophilic addition: C-C bond formation ; Pinacol coupling ; Other reactions (Halogenation and oxidation of [alpha]-H) Carboxylic acids and derivatives. General ; Carboxylic acids ; Carboxylic acid derivatives Conjugated carbonyl compounds. Reduction ; Epoxidation, dihydroxylation, hydroxyamination ; Conjugate addition: heteroatom ; C-C bond formation ; Other reactions Conjugated carbonyl compounds. Reduction ; Epoxidation, dihydroxylation, hydroxyamination ; Conjugate addition: heteroatom ; C-C bond formation ; Other reactions Nitrogen compounds. Amines ; Imines ; Diazo compounds ; Azides ; Nitro compounds Pericyclic reactions. Introduction ; Diels-Alder reactions ; Sigmatropic rearrangements ; Photochemical cycloaddition reactions.
Sommario/riassunto	An extensive update of the classic reference on organic reactions in waterPublished almost a decade ago, the first edition has served as the guide for research in this burgeoning field. Due to the cost, safety, efficiency, and environmental friendliness of water as a solvent, there are many new applications in industry and academic laboratories. More than forty percent of this extensively updated second edition covers new reactions. For ease of reference, it is organized by functional groups. A core reference, Comprehensive Organic Reactions in Aqueous Media, Second Edition:* P