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Nota di contenuto	v. 1. 1989. [pt. 1.] Historical overview and comparison of silicon with carbon / Joyce Y. Corey -- Theoretical aspects of organosilicon compounds / Yitzhak Apeloig -- Structural chemistry of organic silicon compounds / W.S. Sheldrick -- Dynamic stereochemistry at silicon / Robert J.P. Corriu, Christian Guerin and Joel J.E. Moreau -- Thermochemistry / R. Walsh -- Analysis of organosilicon compounds / T.R. Crompton -- Positive and negative ion chemistry of silicon-containing molecules in the gas phase / Helmut Schwarz -- NMR spectroscopy of organosilicon compounds / Elizabeth A. Williams -- Photoelectron Spectra of Silicon Compounds / H. Bock and B. Solouki -- General synthetic pathways to organosilicon compounds / Leonhard Birkofer and Oskar Stuhl -- Recent synthetic applications of organosilanes / Gerald L. Larson -- Acidity, basicity and complex formation of organosilicon compounds / Alan R. Bassindale and Peter

G. Taylor -- Reaction mechanisms of nucleophilic attack at silicon / Alan R. Bassindale and Peter G. Taylor -- [pt. 2.] Activating and directive effects of silicon / Alan R. Bassindale and Peter G. Taylor -- The photochemistry of organosilicon compounds / A.G. Brook -- Trivalent silyl ions / Joseph B. Lambert and W.J. Schulz -- Multiple bonds to silicon / Gerhard Raabe and Josef Michl -- Bioorganosilicon chemistry / Reinhold Tacke and Haryanto Linoh -- Polysilanes / Robert West -- Hypervalent silicon compounds / Robert J.P. Corriu and J. Colin Young -- Siloxane polymers and copolymers / T.C. Kendrick, B. Parbhoo and J.W. White -- Organosilicon derivatives of phosphorus, arsenic, antimony and bismuth / D.A. ("Fred") Armitage -- Chemistry of compounds with silicon-sulphur, silicon-selenium and silicon-tellurium bonds / D.A. ("Fred") Armitage -- Transition-metal silyl derivatives / T. Don Tilley -- The hydrosilylation reaction / Iwao Ojima. v. 2. 1998. [pt. 1.] Theoretical aspects and quantum mechanical calculations of sila-aromatic compounds / Yitzhak Apeloig and Miriam Karni -- A molecular modeling of the bonded interactions of crystalline silica / G.V. Gibbs and M.B. Boisen -- Polyhedral silicon compounds / Akira Sekiguchi and Shigeru Nagase -- Thermochemistry / Rosa Becerra and Robin Walsh -- The structural chemistry of organosilicon compounds / Menahem Kaftory, Moshe Kapon and Mark Botoshansky -- <sup>29</sup>Si NMR spectroscopy of organosilicon compounds / Yoshito Takeuchi and Toshio Takayama -- Activating and directive effects of silicon / Alan R. Bassindale, Simon J. Glynn and Peter G. Taylor -- Steric effects of silyl groups / Jih Ru Hwu, Shwu-Chen Tsay and Buh-Luen Cheng -- Reaction mechanisms of nucleophilic attack at silicon / Alan R. Bassindale, Simon J. Glynn and Peter G. Taylor -- Silicenium ions : quantum chemical computations / Christoph Maerker and Paul von Ragué Schleyer -- Silicenium ions : experimental aspects / Paul D. Lickiss -- Silyl-substituted carbocations / Hans-Ullrich Siehl and Thomas Müller -- Silicon-substituted carbenes / Gerhard Maas -- Alkaline and alkaline earth silyl compounds preparation and structure / Johannes Belzner and Uwe Dehnert -- Mechanism and structures in alcohol addition reactions of disilenes and silenes / Hideki Sakurai -- [pt. 2.] Silicon-carbon and silicon-nitrogen multiply bonded compounds / Thomas Müller, Wolfgang Ziche and Norbert Auner -- Recent advances in the chemistry of silicon-heteroatom multiple bonds / Norihiro Tokitoh and Renji Okazaki -- Gas-phase ion chemistry of silicon-containing molecules / Norman Goldberg and Helmut Schwarz -- Matrix isolation studies of silicon compounds -- Günther Maier [and others] -- Electrochemistry of organosilicon compounds / Toshio Fuchigami -- The photochemistry of organosilicon compounds / A.G. Brook -- Mechanistic aspects of the photochemistry of organosilicon compounds / Mitsuo Kira and Takashi Miyazawa -- Hypervalent silicon compounds / Daniel Kost and Inna Kalikhman -- Silatranes and their tricyclic analogs / Vadim Pestunovich, Svetlana Kirpichenko and Mikhail Voronkov -- Tris(trimethylsilyl)silane in organic synthesis / C. Chatgililoglu, C. Ferreri and T. Gimisis -- Recent advances in the direct process / Larry N. Lewis -- Acyl silanes / Philip C. Bulman Page, Michael J. McKenzie, Sukhbinder S. Klair and Stephen Rosenthal -- Recent synthetic applications of organosilicon reagents / Ernest W. Colvin -- Recent advances in the hydrosilylation and related reactions / Iwao Ojima, Zhaoyang Li and Jiawang Zhu -- [pt. 3.] Synthetic applications of allylsilanes and vinylsilanes / Tien-Yau Luh and Shih-Tzung Liu -- Chemistry of compounds with silicon-sulphur, silicon-selenium and silicon-tellurium bonds / D.A. ("Fred") Armitage -- Cyclic polychalcogenide compounds with silicon / Nami Choi and

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v. 3. 2001. Theoretical aspects of compounds containing Si, Ge, Sn and Pb / Miriam Karni, Yitzhak Apeloig, Jürgen Kapp and Paul von R. Schleyer -- (Helium I)-photoelectron spectra of silicon compounds : history and achievements concerning their molecular states / H. Bock and B. Solouki --  $^{29}\text{Si}$  NMR experiments in solutions of organosilicon compounds / Jan Schraml -- Silyl radicals / C. Chatgililoglu and C.H. Schiesser -- Recent advances in the chemistry of silicon-silicon multiple bonds / Manfred Weidenbruch -- Recent developments in the chemistry of compounds with silicon-nitrogen bonds / Peter Neugebauer, Bettina Jaschke and Uwe Klingebiel -- Organosilicon halides : synthesis and properties / Uwe Herzog -- Synthesis of multiply bonded phosphorus compounds using silylphosphines and silylphosphides / Masaaki Yoshifuji and Kozo Toyota -- Polysilanes : conformations, chromotropism and conductivity / Robert West -- Nanostructured hybrid organic-inorganic solids : from molecules to materials / Bruno Boury and Robert J.P. Corriu -- Polysiloles and related silole-containing polymers / Shigehiro Yamaguchi and Kohei Tamao -- Polysilanols / Paul D. Lickiss -- Silicon-based dendrimers and hyperbranched polymers / David Y. Son -- Biotechnology reveals new routes to synthesis and structural control of silica and polysilsesquioxanes / Daniel E. Morse -- Chemistry on silicon surfaces / Cheol Ho Choi and Mark S. Gordon -- Silyl migrations / Mitsuo Kira and Takeaki Iwamoto -- Kinetic studies of the reactions of Si=C and Si=Si bonds / Tracy L. Morkin, Thomas R. Owens and William J. Leigh -- Ion-molecule reactions of silicon cations / Simonetta Fornarini.

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