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A decade after, Professor Klein, Doctor Aparicio, and Professor Jitianu started to work on the second edition having Professor Sakka as one of the main advisors. The second edition has been significantly updated and enriched and offers a comprehensive view of sol-gel processing, new characterization techniques, and novel applications. The comprehensive scope and integrated address of topics make this reference volume ideal for scientists and engineers across a wide range of disciplines and ...

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This review covers the basics of sol-gel technology and the chemistry of alkoxy silanes, which are the most valuable sol-gel precursors in preparation of sol-gel materials and coatings. Results from early and recent studies are presented showing that sol-gel coatings provide strong corrosion protection for metals.

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L.C. Klein, M. Aparicio, A. Jitianu “Handbook of Sol-Gel Science and Technology; Processing Characterization and Applications, Springer New York, Second edition – expected to be publish in 2017 M. Apparicio, A. Jitianu, L.C. Klein “Sol-Gel Processing for Conventional and Alternative Energy” Springer- New York, February, 2012

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~~Handbook of Sol-gel Science and Technology: Sol-gel ...~~

In materials science, the sol-gel process is a method for producing solid materials from small molecules. The method is used for the fabrication of metal oxides, especially the oxides of silicon (Si) and titanium (Ti).

~~Sol-gel process - Wikipedia~~

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