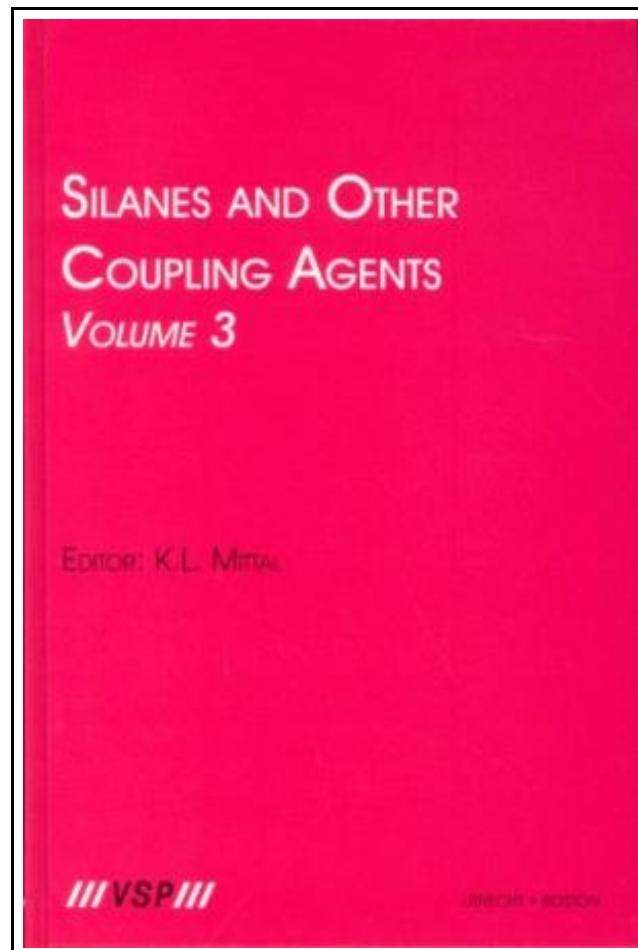


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Taylor Francis Ltd, Netherlands, 2004. Hardback. Book Condition: New. 244 x 160 mm. Language: English . Brand New Book. This volume chronicles the proceedings of the Fourth International Symposium on Silanes and Other Coupling Agents held under the aegis of MST Conferences, LLC in Orlando, FL, June 11-13, 2003. Silanes have been used for about half a century as coupling agents / adhesion promoters to promote adhesion between dissimilar materials in a variety of situations, e.g., coating technology, adhesive bonding, and reinforced composites. However, recently silanes have found other applications, for example, as corrosion inhibitors. Lately there has been tremendous RD activity in understanding the mechanisms by which silanes work as well as in devising new and improved silanes. This volume contains a total of 16 papers which were properly peer reviewed, revised and edited. The book is divided into two parts: 1. Silane Coupling Agents; and 2. Other Coupling Agents / Adhesion Promoters. Topics covered include: sterically hindered silanes; silane hydrolysis; silane oligomers; adsorption of silanes and their surface characterization; structure of bis-silane water-barrier films; silanes for improving adhesive bonding of aluminum, elastomer-to-metal adhesive bonds, and adhesion in silica-filler tire-tread compounds; electrodeposition of bis-silanes; silanes to provide corrosion resistance and as corrosion fatigue inhibitors; silane and other treatments for musical instrument strings; cyclic azasilanes as coupling agents for nanotechnology; hybrid polymers based on silanes for coating textile fabrics; plasma copolymers as adhesion promoters; organophosphate adsorption; and activation of wood fibres. This volume and its predecessors containing bountiful information should serve as a reference source for the latest RD activity in the arena of coupling agents. Anyone interested or involved in promoting adhesion between dissimilar materials for any application should find this volume of great use and value.

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