

Silanes and Other Coupling Agents, Volume 3

SILANES AND OTHER
COUPLING AGENTS
VOLUME 3

Editor: K.L. Mittal

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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 R&D 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 R&D 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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