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This book embodies the  
proceedings of the  
Second International  
Symposium on Silanes

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Promoters held in  
Newark, New Jersey,  
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Silanes are the most popular and widely used coupling agents (or adhesion promoters) to promote adhesion between dissimilar materials in a variety of situations, e.g. coating technology, adhesive bonding, reinforced

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composites, etc.  
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The topic of silanes and other coupling agents/adhesion promoters is of tremendous contemporary interest because of their application in many and varied technologically

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important areas ranging from coatings to reinforced composites to dentistry to biomedical (e.g., for bonding nucleotides to the so-called "gene chips"™).

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The topics covered include: various ways to deposit silanes; silane adsorption; investigation of interfacial interactions between silanes and substrates; factors affecting effectiveness of silanes as adhesion promoters; silanes for corrosion inhibition/protection; application of silanes in

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a variety of  
technological areas;  
silanes in dental  
biomaterials, in  
understanding cellular  
adhesion, and in the  
field of textiles; and  
other (non-silane)  
coupling agents.

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between dissimilar  
materials in a variety of  
situations, e.g. coating  
technology, adhesive  
bonding, reinforced  
composites, etc.

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Typical silane coupling  
agents include (3-amino

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propyl)-triethoxymethyl silane (APTES), (3-aminopropyl)-diethoxymethyl silane (APDEMS), and aminopropyldimethylethoxy silane (APDMES). The addition of silane coupling agents can increase the interaction between polymer and filler by forming a chain linker between inorganic fillers and

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polymers. And

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Silane coupling agents have the ability to form a durable bond between organic and inorganic materials. Encounters between dissimilar materials often involve at least one member that's siliceous or has

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surface chemistry with siliceous properties; silicates, aluminates, borates, etc., are the principal components of the earth's crust.

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Silanes have been used for about half a century as coupling agents / adhesion promoters to promote adhesion

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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.

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The topic of silanes and  
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promoters is of

tremendous

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because of their

application in many and

varied technologically

important areas ranging

from...

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coupling agents  
products. About 19% of  
these are plastic  
auxiliary agents, 19%  
are coating auxiliary  
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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 /

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Other important aspects  
that have been  
meticulously studied in  
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Agents market report is  
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export scenario, industry  
processes and cost ...

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the proceedings of the  
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Symposium on Silanes  
and Other Coupling  
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its predecessors  
containing bountiful



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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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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

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Understanding the  
mechanism.

## Agents Volume 4

Peer-reviewed, revised,  
and edited, the 16  
review and research  
papers explore  
fundamental and applied  
aspects of silanes and  
some new applications  
in addition their  
traditional use to  
promote adhesion  
between dissimilar

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materials. Most deal with silane coupling agents, discussing such aspects as the effect of the bridging group on the structure of bis-silane water-barrier films, amino-silane and bis-silane pre-treatments for adhesive bonding of aluminum, and the electrodeposition of organofunctional bis-

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silanes and their effectiveness in providing corrosion resistance in metals. The others look at other coupling agents and adhesion promoters, among them, cyclic azasilanes as volatile coupling agents for nanotechnology, and organophosphate adsorption on metal oxide surfaces. There is

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Orlando, FL, June  
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adhesion promoters to  
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materials in a variety of  
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recently silanes have



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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,

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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

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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  
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inhibitors; silane and

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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

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its predecessors  
containing bountiful  
information should  
serve as a reference  
source for the latest  
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agents. Anyone  
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promoting adhesion  
between dissimilar  
materials for any  
application should find  
this volume of great use

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This book documents  
the proceedings of the  
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Agents held in honor of  
Dr. Edwin P.

Plueddemann, in  
Midland, Michigan,  
April 3--5, 1991. Dr.  
Plueddemann pioneered  
the development of  
silanes and worked in

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this field for many decades. The contributions to this symposium were by invitation only and the articles have previously been published in four special issues of the VSP publication Journal of Adhesion Science and Technology. The book opens with a summary of the professional and

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personal life of Dr. Plueddemann. The remaining 37 papers are divided into four parts.

The topics covered include: Reminiscing on silane coupling agents (by Dr. Plueddemann himself); silanes as adhesion promoters; stability of silanes in aqueous solution, and the methods to improve the performance of



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Silanes Coupling Agents and  
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silane coupling agents;  
kinetics of hydrolysis  
and condensation of  
silanes; adsorption of  
silanes studied by XPS,  
IETS, FT-IR;  
characterization of  
silanes by TOFSIMS;  
acid-base characteristics  
of silane treated glass;  
plasma polymerized  
organosilanes;  
applications of silanes in  
promoting adhesion, e.g.

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of polyimide coating and resist patterning layer, and in composites; adhesively bonded joints and bonding of dissimilar thermoset materials; and non-silane coupling agents: zirconium based, zircoaluminates and metal alkoxides.

The topic of silanes and other coupling

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agents/adhesion promoters is of tremendous contemporary interest because of their application in many and varied technologically important areas ranging from coatings to reinforced composites to dentistry to biomedical (e.g., for bonding nucleotides to the so-called 'gene chips'). In

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addition to their traditional use for bonding different materials, silanes have been shown to be highly effective in corrosion protection of metallic materials. This book is divided into three parts as follows: Part 1: Silane Coupling Agents/Adhesion Promoters; Part 2: Silanes for Corrosion

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Inhibition/Protection;  
Parts 3: General papers.  
The topics covered  
include: various ways to  
deposit silanes and  
factors affecting silane  
deposition and silane  
deposit characteristics;  
structure of silane  
deposits; silane  
deposition on glass and  
other surfaces;  
hydrophobic silane  
films; water absorption

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and transport in silane films; application of silanes in fiber-reinforced composites for dental use in cathodic delamination of elastomer-metal adhesive joints, and to impart anti-mold and anti fungal characteristics to wood; use of silanes in providing corrosion protection to metallic

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materials and in  
enhancing corrosion  
performance of  
coatings; plasma  
polymer coatings in  
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chromata-free silane-  
containing primer  
technology; silane  
coupling agents for  
surface-initiated living  
polymerization;  
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functional properties of  
fabrics; photocatalytic  
titania for textile  
application; solid-state

NMR studies of surface  
treatments; surface free  
energy of silicon-based  
plasma polymer films.

In essence this book  
reflects the latest R&D  
activity in this arena and  
should be of interest and  
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This book embodies the  
proceedings of the  
Second International  
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Promoters held in  
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October 21--23, 1998.

Silanes are the most popular and widely used coupling agents (or adhesion promoters) to promote adhesion between dissimilar materials in a variety of situations, e.g. coating technology, adhesive bonding, reinforced composites, etc. Since the first symposium on this topic in 1991, there

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had been a tremendous R&D activity in developing new and more effective adhesion promoters and in understanding and optimising the performance of available coupling agents. The technical program for the symposium contained 36 papers and reflected both overviews and

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original research contributors and the presenters hailed from academia, industry and other research laboratories. Many different aspects of coupling agents were discussed, and both fundamental and applied aspects were accorded due coverage. In addition to formal presentations, there

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were brisk and lively discussions throughout the symposium, and this event provided an

opportunity for cross-pollination of ideas in the broad arena of adhesion promoters.

This present volume contains 18 papers by experts from academia, industry and other research laboratories.

All manuscripts were

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subjected to rigorous peer review and were suitably revised before inclusion in this volume.

The book is divided into two parts as follows:

Part 1. Silane Coupling Agents; and Part 2: Non-silane Coupling Agents/Adhesion

Promotors. The topics covered include: silane adhesion promoters for hydrosilylation cure

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systems; sterically hindered silanes; study of silanes hydrolysis; adsorption of silanes on different substrates; interaction of water with silane films studied by neutron reflection; characterization of glass fiber sizings; silanes as dispersion promoters; corrosion protection of metals by silanes; surface 'Intelligraft' as a

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new class of adhesion promoters; hydroxymethylated resorcinol, sol-gels, and 4-diketone functionalised polymers as adhesion promoters; and plasma deposition of silanes.

This book chronicles the proceedings of the Fifth International Symposium held on this topic in Toronto. A total



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of 26 papers covering many ramifications of silanes and other coupling agents are included in this book.

The topics covered include: various ways to deposit silanes; silane adsorption; investigation of interfacial interactions between si

\* It has been rumored that a bumble bee has

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such aerodynamic deficiencies that it should be incapable of flight. Fiberglass-reinforced polymer composites, similarly, have two (apparently) insurmountable obstacles to performance: 1) Water can hydrolyze any conceivable bond between organic and inorganic phase, and 2)

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Stresses across the interface during temperature cycling (resulting from a mismatch in thermal expansion coefficients) may exceed the strength of one of the phases.

Organofunctional silanes are hybrid organic-inorganic compounds that are used as coupling agents across the organic-

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inorganic interface to help overcome these two obstacles to composite performance.

One of their functions is to use the hydrolytic action of water under equilibrium conditions to relieve thermally induced stresses across the interface. If equilibrium conditions can be maintained, the two problems act to cancel

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each other out. Coupling agents are defined primarily as materials that improve the practical adhesive bond of polymer to mineral. This may involve an increase in true adhesion, but it may also involve improved wetting, rheology, and other handling properties. The coupling agent may also modify

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the inter phase And to  
strengthen the organic  
and inorganic boundary  
layers.

4

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