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Silanes and Other Coupling Agents, Volume 5

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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 important areas ranging from coatings to reinforced composites to dentistry to biomedical (e.g., for bonding nucleotides to the so-called â€˜gene chipsâ€™). In 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 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 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 materials and in enhancing corrosion performance of coatings; plasma polymer coatings in corrosion protection of metallic materials; chromata-free silane-containing primer technology; silane coupling agents for surface-initiated living polymerization; nanosols to improve 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 value to anyone with a desire or need to learn about this fascinating and technologically highly significant class of materials.

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