



Silanes and Other Coupling Agents: Volume 5 (Hardback)

By Kash L. Mittal

Brill, Netherlands, 2009. Hardback. Book Condition: New. 244 x 163 mm. Language: English . Brand New Book. 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 a gene chipsa (TM)). 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...



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