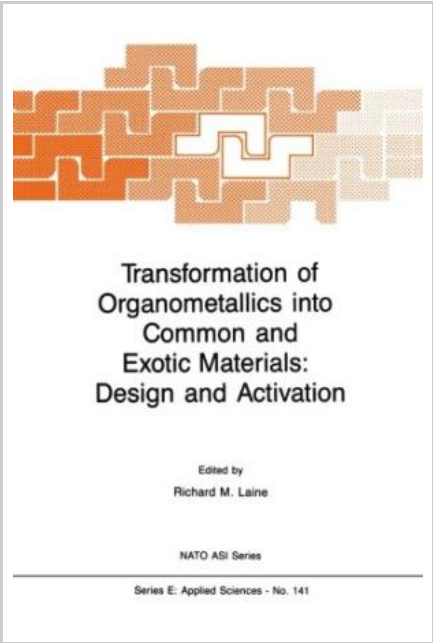

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Transformation of Organometallics into Common and Exotic Materials: Design and Activation (Paperback)

By -

Springer, Netherlands, 2011. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The design, -synthesis, and selective pyrolytic conversion of organo- metallic precursdrs to materials of high purity or specific morphology (for electronic or optical applications), high strength and/or high-temperature stability (for structural or refractory applications) represents a poten- tial area of extreme growth at the overlap of chemistry and materials science (materials chemistry). Research in this area is likely to have considerable impact at both the academic and societal levels because it will require development of scientific expertise in areas currently not well understood. Examples include: (1) The thermodynamics of molecular rearrangements in organometallic molecules at temperatures above 200 DegreesC; (2) The electronic properties of amorphous ceramic materials; (3) The phys- icochemical properties of ceramic molecular composites; and (4) The optical properties of multicomponent glasses made by sol-gel processing. The opportunity to establish the scientific principles needed to pursue useful research goals in materials chemistry requires communica- tion between chemists, ceramists, metallurgists, and physicists. To date, there have been few opportunities to create an environment where such communication might occur. The objective of this NATO Advanced Research Workshop was to promote discussions between experts in...

Reviews

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-- ***Rory Mayert***