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Gregory S. Chirikjian Professor The Robot and Protein Kinematics (RPK) Laboratory .

Research Interests: Computational structural biology (in particular, computational mechanics of large proteins), conformational statistics of biological macromolecules, developed theory for 'hyper- redundant' (snakelike) robot motion planning, designs and builds hyper-redundant robotic manipulator arms ...

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Fischer-Tropsch synthesis (FTS), which converts CO and H₂ into useful hydrocarbon products, has attracted considerable attention as an efficient method to replace crude oil resources. Fe-based catalysts are mainly used in industrial FTS, and Fe₇C₃ is a common carbide phase in the FTS reaction. However, the intrinsic catalytic properties of Fe₇C₃ are

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bearings have special needs and design considerations and deserve a more complete study. Reciprocating machinery bearings tend to be simpler in geometry and much more complicated in application than turbomachinery bearings. For example, the typical turbomachinery journal bearing consists of a thin layer of babbitt on steel while a connecting rod bearing may have numerous different layers of ...

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