



Self-Organization During Friction: Advanced Surface-Engineered Materials and Systems Design (Materials Engineering)

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In our present era of nanoscience and nanotechnology, new materials are poised to take center stage in dramatically improving friction and wear behavior under extreme conditions. Compiled by two eminent experts, *Self-Organization During Friction: Advanced Surface-Engineered Materials and Systems Design* details the latest advances and developments in self-organization phenomena, physical and chemical aspects of friction, and new methods of friction control using advanced materials and coatings.

Approaching nanomaterials from the perspective of irreversible thermodynamics and self-organization, this work presents a new approach to developing an emerging generation of surface-engineered self-adaptive nanostructured materials. The book demonstrates how nanoscale structure, synergistic alloying, and the non-equilibrium state of surface-engineered layers affects the capacity of these next-generation materials to resist wear in heavily loaded tribosystems. These links become clear through discussions on non-equilibrium thermodynamics, tribological compatibility, and self-organization phenomena during friction. International experts also supply cutting-edge information on nanocrystalline and nanolaminated coatings while tracing new trends in materials science and surface engineering at the nanoscale.

By combining detailed discussions on the underlying theory with practical examples of extreme tribological applications, *Self-Organization During Friction* outlines a forward-looking strategy for developing and implementing new surface-engineered materials that promise previously unattainable levels of tribological performance.

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