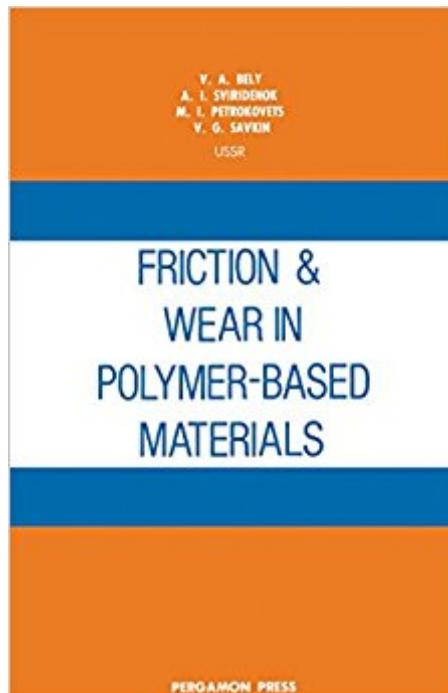




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Friction And Wear In Polymer-Based Materials



Synopsis

Friction and Wear in Polymer-Based Materials discusses friction and wear problems in polymer-based materials. The book is organized into three parts. The chapters in Part I cover the basic laws of friction and wear in polymer-based materials. Topics covered include frictional interaction during metal-polymer contact and the influence of operating conditions on wear in polymers. The chapters in Part II discuss the structure and frictional properties of polymer-based materials; the mechanism of frictional transfer when a polymer comes into contact with polymers, metals, and other materials; and controlling the frictional properties of polymer materials. Part III is devoted to applications of polymer-based materials in friction assemblies. It covers composite self-lubricating materials and polymer materials for complexly loaded main friction assemblies. This work may prove useful to specialists interested in the problems of using polymer materials. It also aims to stimulate deeper research into the field of friction and wear in polymer-based materials.

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