

Surfactants in Tribology, Volume 3



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The manufacture and use of almost every consumer and industrial product rely on application of advanced knowledge in surface science and tribology. These two disciplines are of critical importance in major economic sectors, such as mining, agriculture, manufacturing (including metals, plastics, wood, computers, MEMS, NEMS, appliances), construction, transportation, and medical instruments, transplants, and diagnostic devices. An up-to-date reference with contributions by experts in surface science and tribology, **Surfactants in Tribology, Volume 3** discusses some of the underlying tribological and surface science issues relevant to many situations in diverse industries.

The tradition of presenting new developments and research that began with the first volume in this groundbreaking series continues in the third volume. Comprising 19 chapters on various aspects of surfactants in tribology?including subjects not covered in previous volumes?this book is presented in four parts: *Nanotribology and Polymeric Systems, Biobased and Environmentally Friendly Lubricants and Additives, Tribological Properties of Aqueous and Nonaqueous Systems, and Advanced Tribological Concepts.* Topics include tribological properties of nanoparticles, biopolymer friction, environmentally friendly surface-active agents, biolubricants, aqueous mixed surfactant systems, and surfactants in motor oil, drilling fluids, and in electrowetting for MEMS and NEMS.

The information in this volume provides a cutting-edge reference connecting the fields of surfactants and tribology as a way forward to novel, enhanced methods of controlling lubrication, friction, and wear. Written by a global team of established authorities, this book reflects the latest developments, highlighting the relevance of surfactants in tribological phenomena in a broad range of industries. It provides a valuable resource for readers working in or entering the fields of tribology and surface science.

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